



हेमचंद्र यादव विश्वविद्यालय, दुर्ग (छ.ग.)

(पूर्व नाम- दुर्ग विश्वविद्यालय, दुर्ग)

रायपुर नाका दुर्ग (छ.ग.)-491001



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क्र. 1460 /अका/2019

दुर्ग, दिनांक 04/07/2019

प्रति

प्राचार्य,
समस्त संश्लेष महाविद्यालय,
हेमचंद्र यादव विश्वविद्यालय,
दुर्ग (छ.ग.)

विषय- स्नातक स्तर भाग-एक के पाठ्यक्रम विषयक।

संदर्भ- संयुक्त संचालक, उच्च शिक्षा विभाग के पत्र क्र. 2456/315/आउशि/सम/2019, दिनांक 16.05.2019।

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विषयांतर्गत लेख है कि संदर्भित पत्र के माध्यम से प्राप्त स्नातक स्तर भाग-एक के निम्नलिखित कक्षा/विषयों के परिवर्तित/संशोधित पाठ्यक्रम शिक्षा सत्र 2019-20 से लागू किये जाते हैं-

1. बी.ए. - आधार पाठ्यक्रम-हिन्दी भाषा, हिन्दी साहित्य, राजनीतिशास्त्र, अर्थशास्त्र, नृत्य, दर्शनशास्त्र, समाजशास्त्र, इतिहास, मानवविज्ञान, संस्कृत, सांख्यिकी, प्राचीन भारतीय इतिहास, भूगोल, मनोविज्ञान, लाईब्रेरी साइंस
2. बी.एस-सी. - आधार पाठ्यक्रम-हिन्दी भाषा, जीव विज्ञान, मानवविज्ञान, बायोटेक्नोलॉजी, कम्प्यूटर साइंस, गणित, भौतिक शास्त्र, प्राणीशास्त्र, सूक्ष्मजीव विज्ञान, वनस्पतिशास्त्र, भूविज्ञान, इलेक्ट्रॉनिक्स, रसायन शास्त्र, सांख्यिकी, भूगोल।
3. बी.एस.सी- (गृह विज्ञान) - आधार पाठ्यक्रम - हिन्दी भाषा एवं गृह विज्ञान।
4. विधि - एल.एल.बी.
5. प्रबंध - बी.बी.ए.

उपरोक्त विषयों को शिक्षा सत्र 2019-20 से संशोधित रूप में स्नातक स्तर भाग-एक के लिए लागू किया जाता है स्नातक स्तर भाग दो एवं तीन के पाठ्यक्रम यथावत रहेंगे।

अतः आपसे अनुरोध है कि पाठ्यक्रम परिवर्तन/संशोधन से महाविद्यालय के शिक्षकों एवं छात्र-छात्राओं को अवगत कराने का कष्ट करेंगे।

टीप :- परिवर्तित/संशोधित पाठ्यक्रम विश्वविद्यालय की वेबसाइट पर उपलब्ध है।

संलग्न : उपरोक्तानुसार।

कुलसचिव

संशोधित पाठ्यक्रम
बी.ए./बी.एस-सी./बी.कॉम./बी.एच.एस.-सी.
भाग - एक (आधार पाठ्यक्रम)
प्रश्न पत्र- प्रथम (हिन्दी भाषा)
(पेपर कोड -0101)

पूर्णांक- 75

ट :-

1. प्रश्न पत्र 75 अंक का होगा।
2. प्रश्न पत्र अनिवार्य होगा।
3. इसके अंक श्रेणी निर्धारण के लिए जोड़े जाएंगे।
4. प्रत्येक इकाई के अंक समान होंगे।

पाठ्य विषय :-

इकाई-1

- क. पल्लवन, पत्राचार, अनुवाद, पारिभाषिक शब्दावली एवं हिंदी में पदनाम
ख. इकगाह (कविता) - मुंशी प्रेमचंद

इकाई-2

- क. शब्द शुद्धि, वाक्य शुद्धि, शब्द ज्ञान-पर्यायवाची शब्द, विलोम शब्द, अनेकार्थी शब्द, समश्रुत शब्द, अनेक शब्दों के लिए एक शब्द एवं मुहावरे-लोकोक्तियाँ
ख. भारत बंदना (कविता)- सूर्यकान्त त्रिपाठी निराला

इकाई-3

- क. देवनागरी लिपि - नामकरण, स्वरूप एवं देवनागरी लिपि की विशेषताएँ, हिंदी अपठित गद्यांश, संक्षेपण, हिंदी में संक्षिप्तीकरण
ख. भोलाराम का जीव (व्यंग्य) - हरिशंकर परसाई

इकाई-4

- क. कम्प्यूटर का परिचय एवं कम्प्यूटर में हिंदी का अनुप्रयोग
ख. शिकागो से स्वामी विवेकानंद का पत्र

इकाई-5

- क. मानक हिन्दी भाषा का अर्थ, स्वरूप, विशेषताएँ, मानक, उपमानक, अमानक भाषा
ख. सामाजिक गतिशीलता - प्राचीन काल, मध्यकाल, आधुनिक काल

मूल्यांकन योजना :-

प्रत्येक इकाई से एक-एक प्रश्न पूछा जाएगा। प्रत्येक प्रश्न में आंतरिक विकल्प होगा। प्रत्येक प्रश्न के 15 अंक होंगे। प्रत्येक प्रश्न के दो भाग 'क' और 'ख' होंगे एवं अंक क्रमशः 8 एवं 7 होंगे। प्रश्न-पत्र का पूर्णांक 75 निर्धारित है।

पाठ्यक्रम संशोधन का औचित्य :-

व्याकरण के बुनियादी ज्ञान, संप्रेषण, कौशल, सामाजिक संदेश एवं भाषायी दक्षता को ध्यान में रखते हुए यह पाठ्यक्रम प्रस्तावित है।

FOUNDATION COURSE

PAPER - II

ENGLISH LANGUAGE (Paper Code-0102)

M.M. 75

UNIT-1 Basic Language skills : Grammar and Usage.

Grammar and Vocabulary based on the prescribed text. To be assessed by objective / multiple choice tests.

(Grammar - 20 Marks
Vocabulary - 15 Marks)

UNIT-2 Comprehension of an unseen passage.

This should simply not only (a) an understanding of the passage in question, but also

(b) a grasp of general language skills and issues with reference to words and usage

within the passage and (c) the Power of short independent composition based on themes and issues raised in the passage.

To be assessed by both objective multiple choice and short answer type tests.

UNIT-3 Composition : Paragraph writing

10

UNIT-4 Letter writing (The formal and one Informal)

10

Two letters to be attempted of 5 marks each. One formal and one informal.

UNIT-5 Texts :

15

Short prose pieces (Fiction and not fiction) short poems, the pieces should cover a range of authors, subjects and contexts. With poetry if may sometimes be advisable to include pieces from earlier periods, which are often simpler than modern examples. In all cases, the language should be accessible (with a minimum of explanation and reference to standard dictionaries) to the general body of students schooled in the medium of an Indian language.

Students should be able to grasp the contents of each piece; explain specific words, phrases and allusions; and comment on general points of narrative or argument. Formal Principles of Literary criticism should not be taken up at this stage. To be assessed by five short answers of three marks each.

BOOKS PRESCRIBED -

English Language and Indian Culture - Published by M.P. Hindi Grant Academy Bhopal.

Dr. M. C. Chakrabarty

Dr. S. G. Ghosh

DR. MERILY ROY

HEMCHAND YADAV VISHWAVIDYALAYA, DURG (C.G.)

REVISED SYLLBUS

B. A. Part- I (Economics)

Subject : Micro Economics, Paper-I (Code: 0111)

UNIT 1

Introduction - Definitions Nature and scope of Economics, Methodology in Economics, Utility - Cardinal and Ordinal approaches, Indifference curve, Consumer's equilibrium, Giffin goods, Demand - Law of Demand, Elasticity of demand Consumer's surplus

UNIT 2

Theory of production and cost, Production decision, Production function, Iso-quant, Factor substitution, Law of variable proportions, Returns to scale, Economies of scale, Different concepts of cost and their interrelation, Equilibrium of the firm.

UNIT 3

Market structure-perfect and imperfect markets, Equilibrium of a firm-Perfect competition, Monopoly and price discrimination, Monopolistic competition, Duopoly, Oligopoly, controlled and administered prices

UNIT 4

Factor pricing-Marginal productivity theory of distribution, Euler's theorem, Theories of wage determination, wages and collective bargaining, wage differentials, Rent - Scarcity Rent, differential rent, Quasi rent, Modern Rent Theory, Interest Classical and Keynesian Theories, Modern Theory, Profits - Innovation, Risk bearing and uncertainty theories

UNIT 5

Welfare economics: , What welfare economics is about ?, Role of value judgments in welfare economics, Pigou's contribution in the field of welfare economics, Concept and condition of Pareto optimality, New welfare economics: Kaldor-Hicks welfare criterion, Scitovsky paradox, **Social welfare function and social choice: Bergson-**



Samuelson social welfare function, Prof. Amartya Sen's critique, Arrow impossibility theorem.

References:

1. Bach, G. L. (1977) "Economics," Prentice Hall of India, New Delhi.
2. Gauld, J.P. and Edward P. L. (1996), "Microeconomic Theory," Richard Irwin, Homewood.
3. Henderson J. and R. E. Quandt (1980), "Microeconomic Theory : A Mathematical Approach", McGraw Hill, New Delhi.
4. Heathfield and Wibe (1987), " An Introduction to Cost and Production Functions", Macmillan. London.
5. Koutsoyiannis, A. (1990), " Modern Microeconomics", Macmillan.
6. Lipsey, R. G. and K. A. Chrystal (1999) "Principles of Economics ", (9th Edition), Oxford University Press, Oxford. B.A.-Part-I (21) P

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Dr
26/6/19

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Dr

HEMCHAND YADAV VISHWAVIDYALAYA, DURG (C.G.)

REVISED SYLLBUS

B. A. Part- I (Economics)

Subject: Indian Economy , Paper-II (Code: 0112)

UNIT 1

Pre and post independent Indian economy: A short introduction of economic policies of British India, State of economy at the time of independence, Planning exercise in India-Planning in India through different five Year Plans, The planning commission and NITI Aayog, Growth and development in pre-reform period, New Economic Reforms: Liberalization, Privatization and Globalization, Growth, development and structural change in post-reform period.

UNIT 2

Population and human development: Demographic trends and issues of education, health, malnutrition and migration. Growth and distribution: Trends and policies in poverty, inequality, unemployment and occupational distribution, International comparison in human development and poverty reduction

UNIT 3

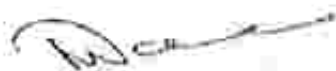
Agriculture: Nature and importance, Trends in agriculture production and productivity, factors determining productivity, Land reforms, new agriculture strategies and green revolution, rural credit, Agricultural marketing, natural resources and infra-structure development: Performance, problems and policies, MUDRA Yojana.

UNIT 4

Industry: Growth and productivity, Industrial policy and reforms, Growth and problems of small and cottage scale industries, Role of public sector enterprises in India's industrialization. Trends and performance in services.

UNIT 5

External Sector - Role of foreign trade, Trends in exports and imports, Composition and direction of India's foreign trade, Export promotion measures and the new



Revised syllabus

SOCIOLOGY 2019 - 2020

B.A. PART-I

Paper - I

INTRODUCTION TO SOCIOLOGY (Paper Code - 0115)

- UNIT-I Sociology : Meaning, Nature, scope, Subject matter and significance.
Basic concepts : Society, Community, institution, Association, group, Status and role.
- UNIT-II Social Institutions: Marriage, Family and kinship.
Culture and society: Culture, socialization, The individual and society, social control, norms and values.
- UNIT-III Social Stratification: Meaning, forms and theories.
Social Mobility: Meaning, forms and theories.
- UNIT-IV Social change: Meaning and patterns, types, factors, evolution and progress.
- UNIT-V Social System and process: Social System- meaning, characteristics and elements.
Social process- Meaning, elements, characteristics and types.

ESSENTIAL READINGS :-

- 1 Bottomore T.B., Sociology- A guide to Problems and Literature, Bombay, George Allen and unwin(India) 1972.
- 2 Inkeles, Alex, What is Sociology ? New Delhi, Prentice Hall of India 1987.
- 3 Jayram, N., Introductory Sociology, Madras Macmillan India 1988.
- 4 Johnson Harry, M., Sociology of systematic Introduction New Delhi Allied Publishers 1995.

Shabhoth
10/6/2019

Aravind
10.06.2019

M. Venkatesh
10-6-19

Revised syllabus

SOCIOLOGY -2019-2020

B.A. PART-I

Paper-II

CONTEMPORARY INDIAN SOCIETY (Paper Code-0116)

- UNIT-I Classical View about Indian Society: *Varna, Asatam, Karma, Dharm and Purusharth.*
- UNIT-II The Structure and composition of Indian society.
Structure : Village, Towns, Cities and Rural - Urban Linkage.
Compositions: Tribes, Dalits, Women and Minorities.
- UNIT-III Basic Institutions of Indian Society:
Caste system, Joint Family, Marriage and Changing dimensions.
- UNIT-IV Familial Problems:
Dowry, Domestic violence, Divorce, Intra-intergenerational conflict, problem of elderly.
- UNIT-V Social Problems:
Surrogate Motherhood, Live in Relationship, Regionalism, Communalism, Corruption, Youth unrest.

ESSENTIAL READINGS :-

1. Dube, S. C. 1995. Society in India, New Delhi: National Book Trust.
2. Mandelbaum, D.G. 1970. Society in India, Bombay: Poular Prakashan.
3. Shrinivas, M.N. 1973. Social Change in Modern India, California: University of California Press.
4. Shrinivas, M.N. 1990. Social Change Structure, New Delhi: Hindustan Publishing Corporation.
5. Uberoi Patricia, 1993. Family and Marriage in India, New Delhi: Oxford University Press.

Shobha S
10/6/2019

Prasenjit
10.06.2019

Madanwar
10-6-19

बी. ए. भाग एक B.A. Part I

राजनीति विज्ञान Political Science

प्रथम प्रश्न पत्र : राजनीतिक विज्ञान Paper I : Political Theory

- इकाई 1 : राजनीति विज्ञान का अर्थ, परिभाषा (आधुनिक अकारण सति) । राजनीति एक विशिष्ट मानवीय व्यवहार के रूप में । शक्ति, सत्ता, प्रभाव : अर्थ, विशेषताएं, प्रकार । राजनीति विज्ञान की अप्रगत पद्धतियां : परम्परागत एवं व्यवहारवाद एवं नत्तर व्यवहारवाद ।
- Unit 1 : Meaning and Definition of Political Science (with modern concept). Politics as a specific human behaviour. Power, Authority and Influence : meaning, features and kinds. Method of Study to Political Science : Traditional, Behaviouralism and Post Behaviouralism.
- इकाई 2 : राज्य एवं उसके आवश्यक तत्व । राज्योत्पत्ति के विभिन्न सिद्धान्त, मार्क्सवादी सिद्धान्त । सामयिक सिद्धान्त ।
- Unit 2 : State and its essential elements. Various theories of the origin of the State, Marxist theory, Organismic Theory.
- इकाई 3 : सम्प्रभुता एवं उसकी बहुलवादी आलोचना । अधिभार, अर्थ, प्रकार, सिद्धान्त । कर्तव्य । स्वतन्त्रता, अर्थ, प्रकार, संरक्षण । समानता, अर्थ, प्रकार एवं समानता से सम्बंध । प्रजातन्त्र : परिभाषा, व्यापक अर्थ, सुनीतियां, सार्वभौमता के लिए आवश्यक शर्तें, गुण-दोष । प्रत्यक्ष प्रजातन्त्र ।
- Unit 3 : Sovereignty and its pluralistic criticism. Rights : meaning, kinds and theories. Duties. Liberty : meaning, kinds, safeguards. Equality : meaning, kinds and relations with Liberty. Democracy : meaning, comprehensive meaning, challenges, conditions for its success, merits and demerits. Direct Democracy.
- इकाई 4 : शासन के प्रकार : एकव्यक्ति व संघात्मक, संसदीय व अध्यक्षवादी, निरंकुशान्त । शासन के अंग : कार्यपालिका, व्यवस्थापिका, न्यायपालिका । शक्ति पृथक्करण का सिद्धान्त व नियंत्रण -संतुलन का सिद्धान्त । संविधान : अर्थ, प्रकार । प्रतिनिधित्व के सिद्धान्त एवं निर्वाचन प्रणालियां ।
- Unit 4 : Kinds of Government : Unitary and Federal, Parliamentary and Presidential, Dictatorship. Organs of Government : Executive, Legislature and Judiciary. Theory of Separation of Powers and Checks and Balances. Constitution : meaning and kinds. Theories of representation and Electoral Process.
- इकाई 5 : लोककल्याणकारी राज्य । दल पद्धति : अर्थ, प्रकार, पद्धति । दवाह समूह : अर्थ, प्रकार, तकनीक । सामाजिक परिवर्तन : अर्थ, विशेषताएं, सिद्धान्त । नारीवाद, राष्ट्रवाद ।
- Unit 5 : Public Welfare State. Party System : meaning, kinds, process. Pressure Groups : meaning, kinds and technique. Social Change : meaning, characteristics, theories. Feminis, Nationalism.

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बी.ए. प्रथम

प्रथम प्रश्न पत्र

राजनीतिक सिद्धान्त

1. ओ.पी. गाबा, समकालीन राजनीतिक सिद्धान्त, मथुरा पेपर बैक्स नोएडा।
2. ओ.पी. गाबा, राजनीति सिद्धान्त की रूपरेखा, मथुरा पेपर बैक्स नोएडा।
3. जे.सी. जौहरी व सीमा जौहरी, आधुनिक राजनीति विज्ञान के सिद्धान्त, स्टर्लिंग पब्लिकेशन।
4. पंत गुप्ता जैन, राजनीति शास्त्र के आधार, सेन्ट्रल पब्लिकेशिंग हाऊस इलाहाबाद।
5. प्रो. आनंद प्रकाश अक्स्थी, भारतीय शासन एवं राजनीति, लक्ष्मीनारायण ऋषवाल, आगरा।
6. Andrew Haywood Political Theory, An Introduction.
7. O.P. Gaba. An Introduction to Political Theory, Macmillan India Ltd.

Yash
27/6/19

Sydney
27/6/19

बी. ए. भाग एक B. A. Part I

राजनीति विज्ञान Political Science

द्वितीय प्रश्न पत्र : भारतीय शासन एवं राजनीति Paper II : Indian Government and Politics

इकाई 1 : भारतीय राष्ट्रीय आन्दोलन : 1858 का प्रथम स्वतन्त्रता संग्राम, असहयोग आन्दोलन, सविनय अवज्ञा आन्दोलन, भारत छोड़ो आन्दोलन । भारत का संविधानिक विकास : 1858, 1909, 1919 और 1935 का भारत शासन अधिनियम ।

Unit 1 : Indian National Movement : First Independence Movement 1858, Non cooperation Movement, Civil Disobedience Movement and Quit India Movement. Constitutional Development of India : Govt. of India Act of 1858, 1909, 1919 and 1935.

इकाई 2 : भारतीय संविधान विशेषताएं प्रस्तावना, स्रोत । संघीय व्यवस्था, मौलिक अधिकार, मूल कर्तव्य, नीति निर्देशक मूल्य । संविधान संशोधन प्रक्रिया ।

Unit 2 : Constitution of India : Characteristics, Preamble, Sources. Federal System. Fundamental Rights and Duties, Directive Principles of State Policy. Constitution Amendment Process.

इकाई 3 : संघीय कार्यपालिका : राष्ट्रपति, उपराष्ट्रपति, मन्त्रिपरिषद् और प्रधानमंत्री । संघीय व्यवस्थापिका संसद : लोकसभा और राज्यसभा । संसदीय प्रक्रिया ।

Unit 3 : Union Executive : President , Vice President, Council of Ministers and Prime Minister. Union Legislature : Parliament: Lok Sabha and Rajya Sabha. Parliamentary Procedure.

इकाई 4 : संघीय न्यायपालिका : सर्वोच्च न्यायालय : गठन, क्षेत्राधिकार, न्यायिक पुनर्जांच, न्यायिक सक्रियतावाद । राज्य कार्यपालिका : राज्यपाल, मन्त्रिपरिषद् और मुख्यमंत्री ।

Unit 4 : Union Judiciary : Supreme Court : Organisation, Jurisdiction, Judicial Review, Judicial Activism. State Executive : Governor, Council of Ministers and Chief Minister.

इकाई 5 : राज्य व्यवस्थापिका : विभागसभा एवं विधानपरिषद् । निर्वाचन आयोग व चुनाव सुधार । राष्ट्रीय व क्षेत्रीय दल । भारतीय राजनीति के प्रमुख मुद्दे : जाति, धर्म, भाषा और क्षेत्र । पंचायती राज व्यवस्था ।

Unit 5 : State Legislature : Legislative Assembly and Legislative Council. Election Commission and Election Reforms. National and Regional Parties. Major issues of Indian Politics : Caste, Religion, Language and Region. Panchayati Raj System.

संदर्भ पुस्तक (Reference Books)

8. डॉ. सुभाष कश्यप, भारत का संविधानिक विकास और संविधान, हिन्दी माध्यम कार्यान्वयन निदेशालय दिल्ली विश्वविद्यालय ।
9. डॉ. सुभाष कश्यप, हमारी संसद, भारत की संसद एक परिचय, राष्ट्रीय पुस्तक न्यास ।
10. डॉ. रूपा मंगलानी, भारतीय शासन एवं राजनीति, राजस्थान हिन्दी ग्रंथ अकादमी जयपुर ।
- 11- M.V. Pylee , Constitutional History of India , S.Chand.
- 12- D.D. Basu Indian Constitution

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27/6/19

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Part - I

SYLLABUS FORENVIRONMENTAL STUDIES AND HUMAN RIGHTS

(Papercode-0828)

MM. 75

इन्वारमेंटल स्टडीस के पाठ्यक्रम को स्नातक स्तर भाग-एक की कक्षाओं में विश्वविद्यालय अनुदान आयोग के निर्देशानुसार अभिचारण रूप से शिक्षा सत्र 2003-2004 (परीक्षा 2004) से प्रभावशील किया गया है। स्वशासी महाविद्यालयों द्वारा भी अनिवार्य रूप से अंगीकृत किया जाएगा।

भाग 1, 2 एवं 3 में से किसी भी तम में पर्यावरण प्रश्न-पत्र उत्तीर्ण करना अनिवार्य है। तमी उपाधि प्रदाय योग्य होगी।

पाठ्यक्रम 100 अंकों का होगा, जिसमें से 75 अंक सैद्धांतिक प्रश्नों पर होंगे एवं 25 अंकक्षेत्रीय कार्य (Field Work) पर्यावरण पर होंगे।

सैद्धांतिक प्रश्नों पर अंक - 75 (सभी प्रश्न इकाई आधार पर रहेंगे जिसमें विकल्प रहेंगे)

- | | | |
|----------------------|---|--------|
| (अ) लघु प्रश्नोंत्तर | - | 25 अंक |
| (ब) निबंधात्मक | - | 50 अंक |

Field Work- 25 अंकों का मूल्यांकन आंतरिक मूल्यांकन पद्धति से कर विश्वविद्यालय को प्रेषित किया जावेगा। अभिलेखों की प्रायोगिक उत्तर पुस्तिकाओं के समान संबंधित महाविद्यालयों द्वारा सुरक्षित रखेंगे।

उपरोक्त पाठ्यक्रम से संबंधित परीक्षा का आयोजन वार्षिक परीक्षा के साथ किया जाएगा।

पर्यावरण विज्ञान विषय अनिवार्य विषय है, जिसमें अनुत्तीर्ण होने पर स्नातक स्तर भाग-एक के छात्र/छात्राओं को एक अन्य विषय के साथ पूरक की पात्रता हंगी। पर्यावरण विज्ञान के

सैद्धांतिक एवं फील्ड वर्क के संयुक्त रूप से 33 (तीस प्रतिशत) अंक उत्तीर्ण होने के लिए अनिवार्य होंगे।

स्नातक स्तर भाग-एक के समस्त नियमित/भूलपूर्व/अमहाविद्यालयीन छात्र/छात्राओं को अपना फील्ड वर्क सैद्धांतिक परीक्षा की समाप्ति के पश्चात् 10 (दस) दिनों के भीतर संबंधित महाविद्यालय/परीक्षा केन्द्र में जमा करेंगे एवं महाविद्यालय के प्राचार्य/केन्द्र अधिकाक, परीक्षकों की नियुक्ति के लिए अधिकृत रहेंगे तथा फील्ड वर्क जमा होने के सात दिनों के भीतर प्राप्त अंक विश्वविद्यालय को भेजेंगे।

UNIT-I THE MULTI DISCIPLINARY NATURE OF ENVIRONMENTAL STUDIES

Definition, Scope and

Importance Natural Resources:

Renewable and Nonrenewable Resources

- (a) Forest resources: Use and over-exploitation, deforestation, Timber extraction, mining, dams and their effects on forests and tribal people and relevant forest Act.
- (b) Water resources: Use and over-utilization of surface and ground water, floods/drought, conflicts over water, dam's benefits and problems and relevant Act.
- (c) Mineral resources: Use and exploitation, environmental effects of extracting and using mineral resources.
- (d) food resources: World food problems, changes caused by agriculture and overgrazing, effects of modern agriculture, fertilizer-pesticide problems, water logging, salinity.
- (e) Energy resources: Growing energy needs, renewable and non-renewable energy sources, use of alternate energy sources.
- (f) Land resources: Land as a resource, land degradation, man induced landslides, soil erosion and desertification.

(12 Lecture)

UNIT-II ECOSYSTEM

(a) Concept, Structure and Function of an ecosystem

- Producers, consumers and decomposers.
- Energy flow in the ecosystem
- Ecological succession
- Food chains, food webs and ecological pyramids.
- Introduction, Types, Characteristics Features, Structure and Function of Forest, Grass, Desert and Aquatic Ecosystem.

(b) Biodiversity and its Conservation

- Introduction - Definition: genetic, species and ecosystem diversity
- Bio-geographical classification of India.
- Value of biodiversity: Consumptive use, productive use, social ethics, aesthetic and option
- Biodiversity at global, National and local levels.
- India as mega-diversity nation.
- Hot spots of biodiversity.
- Threats to biodiversity: habitat loss, poaching of wildlife, man-wild life conflict.
- Endangered and endemic species of India.
- Conservation of biodiversity: In situ and Ex-situ conservation of biodiversity.

UNIT- III

(a) Causes, effect and control measures of

- Air water, soil, marine, noise, nuclear pollution and Human population.
- Solid waste management: Causes, effects and control measures of urban and industrial wastes.
- Role of an individual in prevention of pollution.
- Disaster Management: floods, earthquake, cyclone and landslides.

(12Lecture)

(b) Environmental Management

- From Unsustainable to sustainable development.
- Urban problems related to energy.
- Water conservation, rain water harvesting, watershed management.
- Resettlement and rehabilitation of people, its problems and concerns.
- Environmental ethics: Issues and possible solutions.
- Climate change, global warming, acid rain, ozone layer depletion, nuclear accidents and holocaust.
- Wasteland reclamation
- Environment protection Act: Issues involved in enforcement of environmental legislation.
- Role of Information Technology in Environment and Human Health.

UNIT- IV

General background and historical perspective- Historical development and concept of Human Rights, Meaning and definition of Human Rights, Kind and Classification of Human Rights, Protection of Human Rights under the UNO Charter, protection of Human Rights under the Universal Declaration of Human Rights, 1948, Convention on the Elimination of all forms of Discrimination against women, Convention on the Rights of the Child, 1989.

UNIT-V

Impact of Human Rights norms in India, Human Rights under the Constitution of India, Fundamental Rights under the Constitution of India, Directive Principles of State policy under the Constitution of India, Enforcement of Human Rights in India.

Protection of Human Rights under the Human Rights Act, 1993- National Human Rights Commission, State Human Rights Commission and Human Rights court in India. Fundamental Duties under the Constitution of India.

Reference/ Books Recommended

1. SK Kapoor- Human rights under International Law and Indian Law.
2. HO Agrawal- International Law and Human Rights
3. एस.के. कपूर -मानव अधिकार
4. जे.एन. पान्डेय - भारत का संविधान
5. एम.जी. चतुर्वेदी - भारत का संविधान
6. J.N.Pandey - Constitutional Law of India
7. Agarwal K.C. 2001 Environmental Biology, Nidi pub, Ltd. Bikaner
8. Bharucha Erach, the Biodiversity of India, Mapin pub. Ltd. Ahmedabad 380013, India, Email: mapin@icenet.net(R)
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15. Hawkins R.E. Encyclopedia of Indian Natural History, Bombay Natural History Society, Mumbai (R)
16. Heywood, V.H. & Watson, T.T. 1995 Global Biodiversity Assessment, Cambridge Univ. Press 1140p
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18. Mckimney M.L. & School R.M. 1996, environmental Science systems & solutions, web enhanced edition, 639
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24. Survey of the Environment, The Hindu (M)
25. Townsend C. Harper J. And Michael Begon, Essentials of Ecology, Blackwell Science (TB)
26. Trivedi R.K. Handbook of Environment Laws, Rules, Guidelines, Compliances and Standards, Vol I and II, Environment Media (R)
27. Trivedi R.K. and P.K. Goel, Introduction to air pollution, Techno-Science publication (TB)
28. Wanger K.D. 1998, Environmental Management. W.B. Saunders Co. Philadelphia, USA 499p



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क्र. 2960/A /अका./2020

दुर्ग, दिनांक 30/9/2020

प्रति,

प्राचार्य,
सभरत संवद्ध महाविद्यालय,
हेमचंद्र यादव विश्वविद्यालय,
दुर्ग (छ.ग.)

विषय- स्नातक स्तर भाग-दो के पाठ्यक्रम विषयक।

संदर्भ- संयुक्त संचालक, उच्च शिक्षा विभाग के पत्र क्र. 2458/315/आउशि/सम/2019, दिनांक 16.05.2019।

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विषयांतर्गत लेख है कि संदर्भित पत्र के माध्यम से प्राप्त स्नातक स्तर भाग-दो के निम्नलिखित कक्षा/विषयों के परिवर्तित/संशोधित पाठ्यक्रम शिक्षा सत्र 2020-21 से लागू किये जाते हैं-

1. बी.ए. - आधार पाठ्यक्रम-हिन्दी भाषा, हिन्दी साहित्य, राजनीतिशास्त्र, अर्थशास्त्र, नृत्य, दर्शनशास्त्र, समाजशास्त्र, इतिहास, मानवविज्ञान, संस्कृत, सांख्यिकी प्राचीन भारतीय इतिहास, भूगोल, मनोविज्ञान
2. बी.एस-सी.- आधार पाठ्यक्रम-हिन्दी भाषा, जीव विज्ञान, मानवविज्ञान, बायोटेक्नोलॉजी, कम्प्यूटर साइंस, गणित, भौतिक शास्त्र, प्राणीशास्त्र, सूक्ष्मजीव विज्ञान, वनस्पतिशास्त्र, भूविज्ञान, इलेक्ट्रॉनिक्स, रसायन शास्त्र, सांख्यिकी, भूगोल।
3. बी.ए./बी.एस.सी (गृह विज्ञान) - आधार पाठ्यक्रम - हिन्दी भाषा एवं गृह विज्ञान।

उपरोक्त विषयों को शिक्षा सत्र 2020-21 से संशोधित रूप में स्नातक स्तर भाग-दो के लिए लागू किया जाता है स्नातक स्तर भाग-एक हेतु सत्र 2019-20 में लागू पाठ्यक्रम मान्य होंगे एवं भाग - तीन के पाठ्यक्रम यथावत रहेंगे।

टीप- परिवर्तित/संशोधित पाठ्यक्रम विश्वविद्यालय के परीक्षा विभाग एवं वेबसाइट पर प्रकाशित करने हेतु वेबसाइट प्रभारी को उपलब्ध करा दी गई है।

कुलसचिव

दुर्ग, दिनांक 30/9/2020

क्र. 2961/A /अका./2020

प्रतिलिपि-

1. संयुक्त संचालक, उच्च शिक्षा विभाग के पत्र क्र. 2458/315/आउशि/सम/2019, दिनांक 16.05.2019 परिप्रेक्ष्य में सूचनार्थ।
2. उपकुलसचिव, परीक्षा विभाग एवं उपकुलसचिव, गोपनीय विभाग हेमचंद्र यादव विश्वविद्यालय, दुर्ग।
3. कुलपति के निज सहायक एवं कुलसचिव के निज सहायक, हेमचंद्र यादव विश्वविद्यालय, दुर्ग।

सह. कुलसचिव (अका.)

खण्ड - क निम्नलिखित 5 लेखकों के पाठ शामिल होंगे - अंक-35

- | | | |
|------------------------|---|--------------------------|
| 1. महात्मा गांधी | - | चोरी और प्रायश्चित |
| 2. आचार्य नरेन्द्र देव | - | युवकों का समाज में स्थान |
| 3. वासुदेव शरण अग्रवाल | - | मातृभूमि |
| 4. हरि ठाकुर | - | डॉ. खूबचंद बघेल |
| 5. पं. माधवराव सप्रे | - | सम्भाषण-कुशलता |

खण्ड-ख हिन्दी भाषा और उसके विविध रूप अंक-16

1. कार्यालयीन भाषा
2. मीडिया की भाषा
3. वित्त एवं वाणिज्य की भाषा
4. मशीनी भाषा

खण्ड-ग हिन्दी की व्याकरणिक कोटियों अंक-24

संज्ञा, सर्वनाम, विशेषण, क्रिया विशेषण,
समास, संधि एवं संक्षिप्तियाँ
अनुवाद व्यवहार : अंग्रेजी से हिन्दी में अनुवाद

इकाई विभाजन-

- | | |
|---------|---|
| इकाई- 1 | चोरी और प्रायश्चित : महात्मा गांधी / कार्यालयीन भाषा, मीडिया की भाषा |
| इकाई- 2 | युवकों का समाज में स्थान : आचार्य नरेन्द्र देव / वित्त एवं वाणिज्य की भाषा, मशीनी भाषा |
| इकाई- 3 | मातृभूमि: वासुदेवशरण अग्रवाल / संज्ञा सर्वनाम, विशेषण, क्रिया विशेषण |
| इकाई- 4 | डॉ. खूबचंद बघेल : हरि ठाकुर/समास, संधि, |
| इकाई- 5 | सम्भाषण-कुशलता : पं. माधवराव सप्रे, / अनुवाद - अंग्रेजी से हिन्दी में अनुवाद, संक्षिप्तियाँ |

मूल्यांकन योजना -

प्रत्येक इकाई से एक-एक प्रश्न पूछे जाएंगे। प्रत्येक प्रश्न में आंतरिक विकल्प होगा। प्रत्येक प्रश्न के 15 अंक होंगे। प्रत्येक इकाई को दो-दो खण्डों (कमश 'क' और 'ख' में) विभक्त करते हुए निर्धारित पाठ से 8 एवं शेष पाठ्य सामग्री से 7 अंक के प्रश्न होंगे। इस प्रकार पूरे प्रश्न-पत्र के पूर्णांक 75 होंगे।

पाठ्यक्रम संशोधन का औचित्य : विद्यार्थी चर्चित एवं सुप्रसिद्ध व्यक्तियों के लेख के माध्यम से समाज एवं राष्ट्रहित के साथ-साथ व्यक्तिगत विकास विषयक मुद्दों से परिचित हो सके तथा व्याकरणक एवं भाषा विषयक प्रस्तावित पाठ्यक्रम के माध्यम से हिन्दी भाषा संबंधित प्रयोग पद्धति से परिचित होते हुए प्रतियोगी परीक्षाओं की दृष्टि से ज्ञानार्जन कर सकें।

ENGLISH LANGUAGE (Paper Code-1132)

B.A. / B.Sc. / B.COM. / B.H. Sc. - II

M.M.75

The question paper for B.A. / B.Sc. / B.Com. / B.H. Sc., English Language and cultural values shall comprise the following units:

UNIT-I	Short answer questions to be passed by (Five short answer questions of three marks each)	15 Marks
UNIT-II	(a) Reading comprehension of an unseen passage (b) Vocabulary	05 Marks
UNIT-III	Report-Writing	10 Marks
UNIT-IV	Expansion of an idea	10 Marks
UNIT-V	Grammar and Vocabulary based on the prescribed text book.	20+15Marks

Note: Question on all the units shall asked from the prescribed text which will Comprise Specimens of popular creative/writing and the following it any

- a. Matter & technology
 - i. State of matter and its structure
 - ii. Technology (Electronics Communication, Space Science)
- b. Our Scientists & Institutions
 - i. Life & work of our eminent scientist Arya Bhatt, Kaund Charak Shusruta, Nagarjuna, J.C. Bose and C.V. Raman, S. Rmamuam, Homi J. Babha Birbal Sahani.
 - ii. Indian Scientific Institutions (Ancient & Modern)

Books Prescribed:

Foundation English for U.G. Second Year - Published by M.P. Hindi Granth Academy, Bhopal.

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ENGLISH LITERATURE

PAPER-I

MODERN ENGLISH LITERATURES (Paper Code-0175)

M.M. 75

All Questions are compulsory.

- Note :
1. Unit-I is compulsory. Two passages from each of the units I to V to be set and three to be attempted. (3 x 5 = 15)
 2. Short answer questions from unit VII, seven to be set and five to be attempted. (5 x 2 = 10)
 3. Long answer questions from unit II to VI. Five questions from each unit with internal choice to be set. (5 x 2 = 10)
(Words limit for each answer is 300-400 words)

UNIT-I Annotations

UNIT-II (Poetry)

W.B. Yeats - 'A Prayer for My Daughter, The Second Coming'

T.S. Eliot - 'Love Song of J. Alfred Prufrock'

UNIT-III (Poetry)

Dylan Thomas - 'Lament, A Refusal to Mourn the Death'

Larkin - 'Toads', 'At Grass'

UNIT-IV (Prose)

Bertrand Russell - 'On the Value of Scepticism'

Oscar Wilde - 'Happy Prince'

UNIT-V (Drama)

G.B. Shaw - 'Pygmalion'

UNIT-VI (Fiction and short-stories)

Rudyard Kipling - 'Kim'

Short-Stories

Katherine Mansfield - 'A Cup of Tea'

- UNIT-VII
1. Elegy,
 2. Sonnet,
 3. Ode,
 4. Morality & Miracle Play,
 5. One Act Play,
 6. Interlude

BOOKS RECOMMENDED :

1. An Introduction to the study of English Lit. B. Prasad
2. A Glossary of Literary Terms - M.H. Abrams
3. Prose of Today - M. Millan Pub
4. Short stories of Yesterday and Today - M. Millan

Dr. M. C. Chakraborty

Dr. S. Gupta

DR. MERILY ROY

PAPER - II
MODERN ENGLISH LITERATURES (Paper Code-0176)

M.M. 75

All questions are compulsory.

- Note :** 1. Unit I is compulsory. Two passages from each of the units II to V to be set and three to be attempted. (3x5 = 15)
2. Short answer questions from unit VII, seven to be set and five to be attempted. (5x2 = 10)
3. Long-answer questions from unit II to VI. Five questions from each unit with internal choice to be set. (5x2 = 10)
(Words limit for each answer is 300-400 words)

UNIT-I Annotation

UNIT-II (Poetry)

Sasson - At the Grove of Henry Vaughan.

Owen, W.H. - Strange Meeting

UNIT-III (Poetry)

Auden - Seascape

Ted Hughes - The Howling of Wolves

UNIT-IV (Prose)

Robert Lynd - Forgetting

H. Belloc - A conversation with A Reader

UNIT-V (Drama)

John Galsworthy - Strife

OR J.M. Synge - Riders of the Sea.

UNIT-VI William Golding - Lord of the Flies (Fiction)

UNIT-VII 1. Simile 2. Metaphor 3. Alliteration 4. Onomatopoeia 5. Ballad 6. Epic 7. Dramatic Monologue.

BOOK RECOMMENDED -

1. Golden Treasury - Palgrave
2. A Glossary of Literary Terms - M.H. Abrams
3. An Introduction to the study of English literature - B.Prasad

Dr. M. C. Chakraborty

Dr. S. Gupta

DR. MERILY ROY

Dr. Sanyal

बी. ए. भाग 2 B. A. Part II

राजनीति विज्ञान Political Science

प्रथम प्रश्नपत्र : राजनीतिक विचार Paper I : Political Thought

- इकाई 1 : प्लेटो : आदर्श राज्या - न्याय, शिक्षा, साम्यवाद, दार्शनिक शासक ।
अरस्तू : राज्य, दासप्रथा, नागरिकता, क्रान्ति ।
- Unit 1 : Plato : Ideal State : Justice, Education, Communism, Philosopher King.
Aristotle : State, Slavery, Citizenship, Revolution.
- इकाई 2 : मैकियावेली : युग का शिक्षा, धर्म व नैतिकता, राजा के कर्तव्य और अधिकार ।
होब्स : सामाजिक समझौता सिद्धान्त - लेवियाथन । लॉक : सामाजिक समझौता सिद्धान्त ।
रूसो : सामाजिक समझौता सिद्धान्त, सामान्य इच्छा ।
- Unit 2 : Machiavelli : Child of his times, Religion and Morality, Duties and Conduct of King. Hobbes :
Social Contract Theory: Leviathan. Locke : Social Contract Theory. Rousseau : Social Contract
Theory and General Will.
- इकाई 3 : बेंथम : उपयोगितावाद । मिल : उपयोगितावाद में संशोधन, स्वतंत्रता और प्रतिनिधि शासन ।
ग्रैम : राजनीतिक विचार । मार्क्स : राजनीतिक विचार ।
- Unit 4 : Bentham : Utilitarianism. Mill : Amendment in Utilitarianism. Liberty and Representative
Government. Green : Political Thoughts. Marx : Political Thoughts.
- इकाई 4 : आदर्शवाद, व्यक्तिवाद, उदारवाद, समाजवाद, फासीवाद : विशेषताएं और आलोचना ।
- Unit 4 : Idealism, Individualism, Liberalism, Socialism, Fascism : Features and
Criticism.
- इकाई 5 : मनु और कौटिल्य : सप्तार्ण सिद्धान्त, राजा और राजपद, प्रशासकीय व्यवस्था, राज्यमण्डल ।
गांधी : सत्य, अहिंसा, सत्याग्रह एवं राजनीतिक विचार । जम्हेरकर : राजनीतिक एवं सामाजिक विचार
दीनदयाल उपाध्याय : एकत्ममानववाद ।
- Unit 5 : Manu and Kautilya : Saptang Theory, King and Kingship, Administrative
System, Rajyamandal.
Gandhi : Truth, Non violence, Satyagrah and Political thoughts.
Ambedkar : Political and Social thoughts.
Deen Dayal Upadhyay : Akatmamanavvad.

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राजनीति

सी.ए.- द्वितीय वर्ष
प्रथम प्रश्न पत्र - राजनीतिक विज्ञान

द्वि. पुस्तक

क्र	पुस्तक का नाम	लेखक का नाम
1.	राजनीतिक विज्ञान की रूपरेखा	ओ.पी. गांधी
2.	राजनीतिक विज्ञान का इतिहास	जीवन मेहता
3.	राजनीतिक विज्ञान का इतिहास	वी.एल. फादरिंग
4.	पाश्चात्य एवं आधुनिक राजनीतिक विज्ञान का इतिहास	प्रम. वत्स शर्मा
5.	पाश्चात्य राजनीतिक विज्ञान	जे.पी. सूर
6.	भारतीय राजनीतिक विज्ञान	वी.पी. वर्मा
7.	भारतीय राजनीतिक विज्ञान	अवस्था एव अवस्था
8.	भारतीय राजनीतिक विज्ञान	आ.पी. गांधी
9.	पालाटकल खाट	सा.एल. यंगर
10.	मिस्टर ऑफ पालाटकल खाट	जाफा एम. सवाईन
11.	मिस्टर ऑफ पालाटकल खाट	फारुख उब्बू काकर
12.	मिस्टर ऑफ पालाटकल खाट	माइकल बा. फोस्टर
13.	मिस्टर ऑफ पालाटकल खाट	वाटसन इवस्टोन

Reference:-

- W.A. Dunning: A History of Political Theories, (Vols. I, II & III), New York: Merillan, 1930
- G.H. Sabine: A History of Political Theory (English & Hindi), New Delhi: Oxford & IBH Publishing Co., 1963
- C.L. Wayer: Political Thought (English & Hindi), Bombay: B.I. Publications Pvt. Ltd., 1974
- E. Barker: Greek Political Theory: Plato and His Predecessors, London: Methuen & Co. Ltd., 1918
- Political Thought in England, London: Thornton Butterworth Ltd., 1928
- Gettell: History of Political Thought (English & Hindi)
- K.P. Jaiswal: Hindu Polity (English & Hindi), Bangalore: Bangalore Printing & Publishing Co., 1955
- V.P. Verma: Modern Social and Political Thought of India, Agra: L.N. Agrawal Educational Publishers, 1961
- N.C. Bandopadhyaya: Development of Hindu Polity and Political Theory, New Delhi: Munshiram & Manoharlal, 1980
- Arvind Sharma, Modern Hindu Thought: The Essential Texts, New Delhi: OUP, 2002
- John Dunn, Western Political Theory in the Face of the Future, New York: Cambridge University Press, 1993
- Jonathan Wolff, An Introduction to Political Philosophy, Revised Edition, Oxford: OUP, 2006
- J.E. Parsons Jr., Essays in Political Philosophy, Washington D.C., University Press of America, 1982
- Mark N. Hagopian, Ideals and Ideologies of Modern Politics, New York & London: Longman, 1985
- John Elster (Ed.) Karl Marx: A Reader, New York: OUP, 1977
- Thomas Sowell, Marxism: Philosophy and Economics, New York: Quill, 1985
- Brian R. Nelson, Western Political Thought, Delhi NCR: Pearson Education Ltd., 1996
- Vishwanath Mishra, Rajavidya evam Rajanitikashashtra, Sagor: Vishwavidyalaya Prakashan, 2007
- Brian R. Nelson, Western Political Thought, Delhi NCR: Pearson Education Ltd., 1996

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राजनीतिक विज्ञान

बी. ए. भाग 2 B. A. Part II

राजनीति विज्ञान Political Science

द्वितीय प्रश्नपत्र : तुलनात्मक शासन एवं राजनीति

Paper II : Comparative Government and Politics

- इकाई 1 : ब्रिटिश संविधान : विकास, विशेषताएं, कार्यपालिका, व्यवस्थापिका, न्यायपालिका ।
- Unit 1 : British Constitution : Evolution, Salient Features, Executive, Legislature and Judiciary.
- इकाई 2 : संयुक्त राज्य अमेरिका का संविधान : विशेषताएं, कार्यपालिका, व्यवस्थापिका, न्यायपालिका, शक्ति पृथक्करण व नियंत्रण संतुलन का सिद्धान्त ।
- Unit 2 : Constitution of United States of America : Salient Features, Executive, Legislature and Judiciary. Theory of Separation of Powers and checks and balances.
- इकाई 3 : स्विट्जरलैण्ड का संविधान : विशेषताएं, कार्यपालिका, व्यवस्थापिका, न्यायपालिका, प्रत्यक्ष प्रजातंत्र । Unit 3 : Constitution of Switzerland : Salient Features, Executive, Legislature and Judiciary. Direct Democracy.
- इकाई 4 : चीन का संविधान : विशेषताएं, कार्यपालिका, व्यवस्थापिका, न्यायपालिका, साम्यवादी दल ।
- Unit 4 : Constitution of China : Salient Features, Executive, Legislature and Judiciary. Communist Party.
- इकाई 5 : तुलनात्मक राजनीति : अर्थ, परिभाषा । ईस्टन का व्यवस्था सिद्धान्त, आनण्ड का संरचनात्मक-प्रकारात्मक उपपन्न । राजनीतिक विकास, राजनीतिक समाजीकरण, राजनीतिक संस्कृति की अन्वेषण ।
- Unit 5 : Comparative Politics : meaning, Definition. System Theory of David Easton, Structural-functional Approach of Almond. Concept of Political Development, Political Socialisation, Political Culture

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राजनीति

बी.ए. द्वितीय वर्ष
द्वितीय प्रश्न पत्र
तुलनात्मक शासन एवं राजनीति

संदर्भ पुस्तक

क्र	पुस्तक का नाम	लेखक का नाम
1.	तुलनात्मक राजनीति एवं राजनीतिक संस्थाएं	सी.बी. मेना
2.	तुलनात्मक राजनीति	जे.सी. जोहरी
3.	तुलनात्मक राजनीति	पी.डी. शर्मा
4.	तुलनात्मक राजनीति	एस.आर. महेष्वरी
5.	तुलनात्मक राजनीति संस्थाएं और प्रक्रियाएं	तपन त्रिवाली
6.	कम्परेटीव गवर्नमेंट	एच.ई. फर्डिनर

Reference :-

- Anup Chand Kapur, K.K. Mishra *Select Constitutions* (U.K., U.S.A., France, Canada, Switzerland, Japan, China, India), S. Chand & Company Ltd., New Delhi, 2001.
- B.C. Rai, *The World Constitution: A Comparative Study* (U.S.A., U.K., Soviet Union, Switzerland, Japan, France, Australia, Canada, India, Pakistan), Prakashan Kendra, Lucknow, 2001.
- G. Almond et.al., *Comparative Politics Today : A World View*, 7th Edition, New York/London, Harper Collins, 2000
- R. Hague & M. Harrop, *Comparative Government and Politics: An Introduction*, 5th Edition, New York, Palgrave, 2001
- A. Bobler and J. Seroka (eds.); *Contemporary Political System: Classification and Typologies*, Boulder Colorado, Lynce Reimer Publishers, 1990.
- Richa Sakma, *Russian Politics and Society*, London: Routledge, 1996.
- Anuradha Chenoy, *The Making of New Russia*, New Delhi, Har-Anand Publications, 2000
- Shashi Kant Jha & Bhaswati Sarkar (eds.) *Amidst Turbulence & Hope, Transition Russia and Eastern Europe*, New Delhi, 2002
- Thomas F. Remington, *The Russian Parliament: Institutional Evolution in a Transitional Regime*, 1989-1999, Yale University Press, 2002
- Gabriel A. Almond and G. Bingham Powell (eds.) *Comparative Politics Today: A World view*, Harper Collins Publishers, 2002
- *The Russian Constitution*, Text as adopted in 1993
- J. C. Johri, 'New Comparative Government', Lotus Press Publisher, 2008.
- Vidya Bhushan and Vishnu Bhagwan, *World Constitutions*, New Delhi

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Revised syllabus

SOCIOLOGY 2019 - 2020

B.A. PART-II
PAPER - I

SOCIOLOGY OF TRIBAL SOCIETY
(Paper Code-0185)

- UNIT-I Tribes: Concepts, Characteristics, Tribes and Schedule Tribes, Distinction between Tribe and Caste.
- UNIT-II Classification of Tribal people: Food gatherers and hunters, Shifting cultivators, Nomads, Peasant settled Agriculturists and Artisans.
- UNIT-III Socio-cultural Profile: Kinship, Marriage, Family, Religion and belief cultural traditions.
- UNIT-IV Tribal sensitization: Tribal Mobility, Schemes of Tribal Development, Various Tribal Movements.
- UNIT-V Problems of Tribal People: Poverty, Illiteracy, Indebtedness, Agrarian issues, Exploitation study of tribal communities in Chhattisgarh with special reform to Particularly Venerable Tribal Groups (PVTG).

ESSENTIAL READINGS :-

1. Vidyarthi, L.P. 1965. Cultural Counters of Tribal Bihar, Punthi Pustak, Calcutta.
2. Bose, N.K. 1971. Tribal Life in India, National Book Trust, New Delhi.
3. Das, R.K. 1988. The Tribal Social Structure, Inter India Publications, New Delhi.
4. Dubey, S.C. 1977. Tribal Heritage of India, Ethnicity, Identity and Interaction, Vol.I, Vikash Publishing House, Delhi.
5. Elwin, Varrier. 1989. The Tribal World of Verrier Elwin: An Autobiography, Oxford, New Delhi.
6. Russell, R.V. and Hira Lal. 1916. The Tribes and Castes of Central Province of India, 4 Vols. Cosmo Publications, New Delhi.

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Revised syllabus
SOCIOLOGY 2019-2020

B.A. PART-II

PAPER-II

CRIME AND SOCIETY

(Paper Code-0186)

- UNIT-I **Concept of Crime:** Meaning, Characteristics and Types,
School of Crime: Classical, Sociological and Psychological.
- UNIT-II **Structure of Crime:** Anomie, Criminality and Suicide, Organized Crime,
White Collar Crime and Cyber Crime
- UNIT-III **Social Evils and Crime:** Alcoholism, Drug Addiction, Dowry and Beggary.
- UNIT-IV **Punishment:** Meaning, Characteristics, Objectives and Types,
Major Theories of Punishment.
- UNIT-V **Correctional Process:** Role of Police and Judiciary in India. Development of Jail
reforms in India and Modern correctional concepts- Probation, Parole and after
care Programme.

ESSENTIAL READINGS :-

1. Mike, & Maguire. (2007). *The Oxford Hand Book of Criminology*. London: Oxford University Press.
2. Haster, S., & Eglin, P. (1992). *A Sociology of Crime*. London: Routledge Publishers.
3. Mead, G. H. (1934). *Mind Self and Society*. Chicago: Chicago University Press
4. Gottfredson, Michael, R., Hirschi, & Travis. (1990). *A General Theory of Crime*. London: Stanford University Press.
5. Sutherland, & Edwin, H. (1924). *Principles of Criminology*. Chicago: Chicago University Press.
6. Sutherland, Edward, H., & White, C. (1949). *Crime*. New York, Holt, Rinehart: Winston Press, New York.

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Pranav
10.06.2019

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HEMCHAND YADAV VISHWAVIDYALAYA, DURG (C.G.)

REVISED SYLLBUS

B.A. Part- II (Economics)

Subject : Macro Economics, Paper-I (Code: 0181)

UNIT 1

National Income: Concept and measurement of national income, Economic welfare and national income, Social accounting, Circular flow of income, National income accounting, Green accounting Classical theory of employment, Say's law of market Keynesian theory of employment.

UNIT 2

Consumption Function - Average and marginal propensity to consume, Keynes's psychological law of consumption. Determinants of the consumption function. The saving function. The investments multiplier and its effectiveness, The investment Function - marginal efficiency of capital, Autonomous and induced investment. Saving and investment equality.

UNIT 3

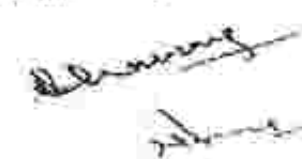
Nature and Characteristics of trade cycle, Theories of trade cycle: Hawtrey's monetary theory, Hayek's over investment theory, Keynes's view on trade cycles, Schumpeter's theory of innovation, Samuelson and Hicks multiplier accelerator model, Control of trade cycle.

UNIT 4

International Trade - Inter-regional and international trade, Comparative advantage cost theory, Opportunity cost theory and Heckscher Ohlin theory, International trade and economic development, Tariffs & import quotas, Concept of optimum tariff. Balance of trade & balance of payment, Concept & components of BOP, Equilibrium & disequilibrium in BOP, Relative merits & demerits of devaluation, Foreign trade multiplier.

UNIT 5

Functions and objectives of international monetary fund, World Bank and World Trade Organization, International monetary reforms and India, Foreign trade in



India recent change in the composition and direction of foreign trade, India's balance of payment, Export promotion and import substitution in India. Multinational Corporation and India.

BASIC READING LIST -

- Ackley, G. (1976) - "Macro Economics; Theory and Policy," Mcmillan Publishing Company, Newyork.

- Day, A.C.L. (1960) - "Outline of Monetary Economics," Oxford University Press Oxford.

- Gupta, S.B. (1994)- "Monetary Economics," S. Chand and Co., Delhi

- Heijdra, B.J. and F.V. Ploeg (2001) - "Foundations of Modern Macro-economics," Oxford University Press, Oxford.

- Lewis, M.K. and P.D. Mizan (2000) -" Monetary Economics, " Oxford University Press, New Delhi.

- Shapiro, E. (1996) - "Macroeconomic Analysis," Galgotia Publications, New Delhi .

READING LIST - - Ackley, G. (1976)," Macroeconomics : Theory and Policy", Macmillan Publishing Company, New York. -

Day, A.C.L. (1960) -" Outline of Monetary Economics," Oxford University Press Oxford.

- Gupta, S.B. (1994)- "Monetary Economics," S. Chand and Co., Delhi

- Heijdra, B.J. and F.V. Ploeg (2001) -" Foundations of Modern Macro-economics, " Oxford University Press, Oxford.

- Lewis, M.K. and P.D. Mizan (2000) - Monetary Economics, Oxford University Press, New Delhi.

- Shapiro, E. (1996) - "Macroeconomic Analysis," Galgotia Publications, New Delhi.

- Dillard, D. (1960)- "The Economics of John Mayanand Keynes, "Crossby Lockwood and Sons, London.

- Hanson, A.H. (1953), "A Guide to Keynes, " McGraw Hill, New York.

- Higgins, B. (1963), "Economic Development; Principles, Problems and Policies, " Central Book Depot, Allahbad.

- Keynes, J.M. (1936), "The General Theory of Employment, Interest and Money," Macmillan, London.

- Kindleberger, C.P. (1958), "Economic Development," McGraw Hill Book company, New York.

Powelson, J.P.C. (1960), " National Income and Flow of Funds Analysis," McGraw Hill, New York.

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HEMCHAND YADAV VISHWAVIDYALAYA, DURG (C.G.)

REVISED SYLLBUS

B.A. Part- II (Economics)

Subject : Money, Banking and Public Finance, Paper-II (Code: 0182)

UNIT 1

Basic concepts : Money - meaning and functions, Gresham's law; Quantity theory of money- Cash transaction and cash balance approaches; Value of Money, Inflation, deflation and reflation, types, causes and effects on different sectors of the economy; Demand pull and cost push inflation; Measures to control inflation, Phillips curve, Concept of demonetization.

UNIT 2

Commercial banking- meaning and types; Functions of commercial banks, The process of credit creation, purpose and limitations; Liabilities and assets of banks; Evolution of commercial banking in India after independence; A critical appraisal of the progress of commercial banking after Nationalization, Functions of a central bank; Quantitative and qualitative methods of credit control; Bank rate policy; Open market operations; Variable reserve ratio and selective methods. Role and functions of the Reserve bank of India; Objectives and limitations of monetary policy with special reference to India.

UNIT 3

Meaning and scope of public finance; Distinction between private and public finance; public goods v/s private goods; The Principle of maximum social advantage; Role of the government in economic activities ; Public expenditure - Meaning, classification and principles of public expenditure; Trends in public expenditure and causes of growth of public expenditure in India.

UNIT 4

Sources of Public revenue; taxation - Meaning, Canons and classification of taxes; Division of tax burden. The benefit and ability to pay approaches; Impact and incidence of taxes; Taxable capacity; Effects of taxation; Characteristics of a good tax

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system: Equity and Justice in Taxation, Major trends in tax revenue of the Central and State Government in India.

UNIT 5

Public debt and financial administration: Sources of public borrowing, Effects of public debt. Methods of debt redemption. The public budget- Kinds of budget, Economic and functional classification of the budget; Preparation and passing of budget in India.

READING LIST -

- Ackley G. (1978), "Macroeconomics : Theory and Policy," Macmillan Publishing Co., New York.
- Bhargavas B.H. (1981), "The Theory and Working of Union Finance in India," Chaitanya Publishing House Allahabad.
- Gupta, S.B. (1994), "Monetary Economics", S. Chand & Company, New Delhi.
- Houghton. E.W. (Ed.) (1988), "Public Finance." Pengum, Battinore - Jha R. (1998), Modern Public Economics. Routledge, London.
- Mithani, D.M. (1981), "Modern Public Finance," Himalaya Publishing House, Mumbai.
- Musgrave, R.A. and P.B. Musgrave (1976), "Public Finance in Theory and Practice", McGraw Hill, Kogakusha, Tokyo.
- Shapiro, E. (1996), "Macroeconomics Analysis," Galgotia Publications, New Delhi.

ADDITIONAL READING LIST

- Day, A.C.L. (1960), "Outline of Monetary Economics," Oxford University Press, Oxford.
- De Kock, M.H. (1960), "Central Banking," Staples Press, London.
- Due, J.E. (1963), "Government Finance," Irwin, Homewood.
- Government of India, "Economic Survey" (Annual), New Delhi
- Halm, G.N. (1955), "Monetary Theory," Asia Publishing House, New Delhi

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26/6/19

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हेमचंद्र यादव विश्वविद्यालय, दुर्ग (छ.ग.)

(पूर्व नाम- दुर्ग विश्वविद्यालय, दुर्ग)

रायपुर नाका दुर्ग (छ.ग.)-491001

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दूरभाष : 0788-2359400

क्र. 3861 / अका. / 2021

दुर्ग, दिनांक 30/7/21

प्रति,

प्राचार्य,

समस्त संबद्ध महाविद्यालय,

हेमचंद्र यादव विश्वविद्यालय,

दुर्ग (छ.ग.)

विषय:- स्नातक स्तर भाग-तीन के पाठ्यक्रम विषयक।

संदर्भ:- संयुक्त संचालक, उच्च शिक्षा विभाग के पत्र क्र. 2456/315/आउशि/सम/2019, दिनांक 16.05. 2019।

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विषयांतर्गत लेख है कि संदर्भित पत्र के माध्यम से प्राप्त स्नातक स्तर भाग-तीन के निम्नलिखित त्क्या/विषयों के परिवर्तित/संशोधित पाठ्यक्रम शिक्षा सत्र 2021-22 से लागू किये जाते हैं:-

1. बी.ए. - आधार पाठ्यक्रम - हिन्दी भाषा, हिन्दी साहित्य, राजनीतिशास्त्र, अर्थशास्त्र, नृत्य, दर्शनशास्त्र, समाजशास्त्र, इतिहास, मानवविज्ञान, संस्कृत, सांख्यिकी प्राचीन भारतीय इतिहास, भूगोल, मनोविज्ञान
2. बी.एस-सी. - आधार पाठ्यक्रम-हिन्दी भाषा, जीव विज्ञान, मानवविज्ञान, बायोटेक्नोलॉजी, कम्प्यूटर साईंस, गणित, भौतिक शास्त्र, प्राणीशास्त्र, सूक्ष्मजीव विज्ञान, वनस्पतिशास्त्र, भूविज्ञान, इलेक्ट्रॉनिक्स, रसायन शास्त्र, सांख्यिकी, भूगोल।
3. बी.ए./बी.एस.सी - आधार पाठ्यक्रम - हिन्दी भाषा एवं गृह विज्ञान।
4. बी.सी.ए. - भाग-3
5. बी.कॉम. - भाग-1, भाग-2 एवं भाग-3 का परिवर्तित पाठ्यक्रम सत्र 2019-20 में जारी कर लागू किया जा चुका है।

कृ.प.उ.

उपरोक्त विषयों को शिक्षा सत्र 2021-22 से संशोधित रूप में स्नातक स्तर भाग-तीन के लिए लागू किया जाता है स्नातक स्तर भाग-एक हेतु सत्र 2019-20 एवं स्नातक स्तर भाग-दो हेतु सत्र 2020-21 में लागू पाठ्यक्रम मान्य होंगे।

टीप:- परिवर्तित/संशोधित पाठ्यक्रम विश्वविद्यालय की वेबसाईट पर उपलब्ध है।


कुलसचिव

क्र. 3862 /अका./2021

दुर्ग, दिनांक 20/7/21

प्रतिलिपि:-

1. संयुक्त संचालक, उच्च शिक्षा विभाग के पत्र क्र. 2456/315/आउशि/सग/2019, दिनांक 16.05.2019 के परिप्रेष्य में सूचनार्थ
2. उपकुलसचिव, परीक्षा विभाग एवं उपकुलसचिव, गोपनीय विभाग हेमचंद्र यादव विश्वविद्यालय, दुर्ग।
3. वेबसाईट प्रभारी, वेबसाईट पर पाठ्यक्रम प्रकाशित करने हेतु।
4. कुलपति के निज सहायक एवं कुलसचिव के निज सहायक, हेमचंद्र यादव विश्वविद्यालय, दुर्ग।


सहा. कुलसचिव (अका.)

- इकाई-एक (क) भारत माता : सुमित्रानंदन पंत
(ख) कथन की शैलियाँ
1. विंगरणात्मक शैली 2. मूल्यांकन शैली
3. व्याख्यात्मक शैली 4. विचारात्मक शैली
- इकाई-दो (क) सूखी डाली : उपेन्द्रनाथ अशक
(ख) विभिन्न संरचनाएँ
1. विनम्रता सूचक संरचना 2. विधि सूचक संरचना
3. निषेध परक संरचना 4. काल-बोधक संरचना
5. स्थान-बोधक संरचना 6. दिशा बोधक संरचना
7. कार्य-कारण सम्बन्ध संरचना 8. अनुक्रम संरचना
- इकाई-तीन (क) वसीयत : मालती जोशी
(ख) कार्यालयीन पत्र और आलेख
1. परिपत्र 2. आदेश
3. अधिसूचना 4. ज्ञापन
5. अनुस्मारक 6. पृष्ठांकन
- इकाई-चार (क) योग की शक्ति : हरिवंश राय बच्चन
(ख) अनुवाद : स्वरूप एवं परिभाषा, उद्देश्य
स्त्रोत भाषा और लक्ष्य भाषा,
अच्छे अनुवाद की विशेषताएँ,
अनुवाद प्रक्रिया, अनुवादक

- इकाई-पांच (क) संस्कृति और राष्ट्रीय एकीकरण : योगेश अटल
(ख) घटनाओं, समारोहों आदि का प्रतिवेदन, विभिन्न प्रकार के निमंत्रण पत्र

मूल्यांकन योजना : प्रत्येक इकाई से एक-एक प्रश्न पूछा जाएगा। प्रत्येक प्रश्न में आंतरित विकल्प होगा। प्रत्येक प्रश्न के 15 अंक होंगे। इसलिए प्रत्येक प्रश्न के दो भाग 'क' और 'ख' होंगे एवं अंक क्रमशः 8 एवं 7 अंक होंगे। प्रश्नपत्र का पूर्णांक 75 निर्धारित है।

5/7/2024

डा. आशा त्रिपाठी



आशा त्रिपाठी

Foundation Course-III

English Language

B.A./B.Sc./B.Com./B.H.Sc./III

M.M. 75

The question paper for B.A./B.Sc./B.Com./B.H.Sc. III Foundation course, English Language and General Answers shall comprise the following items:

Five questions to be attempted, each carrying 3 marks.

UNIT-I Essay type answer in about 200 words. 5 essay type questions to be asked three to be attempted.	15
UNIT-II Essay writing	10
UNIT-III Precise writing	10
UNIT-IV (a) Reading comprehension of an unseen passage	05
(b) Vocabulary based on text	10
UNIT-V Grammar Advanced Exercises	25

Note: Question on unit I and IV (b) shall be asked from the prescribed text. Which will comprise of popular creative writing and the following items. Minimum needs housing and transport Geo-economic profile of M.P. communication Educate and culture. Women and Women in Empowerment Development, management of change, physical quality of life. War and human survival, the question of human social value survival, the question of human social value, new Economic Philosophy Recent Diberatiation Method) Demoriation decentralization (with reference to 73, 74 constitutional Amendment.

Books Prescribed:

Aspects of English Language and Development - Published by M.P. Hindi Granth Academy, Bhopal.

वी. ए. भाग 3 B.A. Part III

राजनीति विज्ञान Political Science

प्रथम प्रश्नपत्र : अन्तर्राष्ट्रीय राजनीति एवं भारत की विदेश नीति

Paper I : International Politics and Foreign Policy of India

- इकाई 1 : अन्तर्राष्ट्रीय राजनीति : अर्थ, प्रकृति, क्षेत्र ।
अन्तर्राष्ट्रीय राजनीति : अभ्यास उपागम - यथार्थवाद, आदर्शवाद, न्यायवादीवाद, विश्व व्यवस्था सिद्धान्त । राष्ट्रीय हित एवं राष्ट्रीय शक्ति : अर्थ, परिभाषा एवं ताल ।
- Unit 1 : International Politics : meaning, Nature, Scope. International Politics : Approaches to the study : Realism, Idealism, New realism, World System theory. National interest and National power: Meaning Definition and Elements.
- इकाई 2 : अन्तर्राष्ट्रीय राजनीति के विभिन्न सिद्धान्त : व्यवस्था, शक्ति, निर्णय निर्माण, सौदेबाजी का सिद्धान्त । शक्ति संतुलन । सामूहिक सुरक्षा । निश्स्वीकरण । शीतयुद्ध । राजमय ।
- Unit 2 : Various theories of International Politics : System, Game, Decision making, Bargaining theory. Balance of Power, Collective Security, Disarmament, Cold war, Diplomacy.
- इकाई 3 : भारत की विदेश नीति : निर्धारक तत्व, विशेषताएं । सुटनिरपेक्षता : अर्थ, विशेषताएं, प्रासंगिकता ।
- Unit 3 : Foreign Policy of India : Determinating elements, characteristics, Non-alignment : meaning, features , relevance.
- इकाई 4 : भारत का पड़ोसियों से सम्बंध - चीन, पाकिस्तान, नेपाल, श्रीलंका । भारत का महाशक्तियों से सम्बंध - संयुक्त राज्य अमेरिका, रूस, ब्रिटेन एवं फ्रांस
- Unit 4 : Indias' relations with neighboring countries : China , Pakistan, Nepal, Sri lanka, Relations with Super Powers - USA, Russia, Britain and France.
- इकाई 5 : अन्तर्राष्ट्रीय राजनीति के कुछ प्रमुख मुद्दे : पर्यावरणवाद । अन्तर्राष्ट्रीय आतंकवाद । वैश्वीकरण । मानव अधिकार । परमाणविक निश्स्वीकरण ।
- Unit 5 : Some major issues of International Politics :
Environmentalism, International Terrorism, Globalisation, Human Rights, Nuclear Disarmament.

Anita
2023-24
Dr. Anita K. Verma

Rajni
01/07/2021

Sunita Mishra

Mishra
श्री. मणिमोहन शुक्ल

बी.ए. अंतिम वर्ष
प्रथम प्रश्न पत्र
अंतर्राष्ट्रीय राजनीति एवं भारत की विदेश नीति

सन्दर्भ ग्रन्थ सूची:-

क्र.	पुस्तक का नाम	लेखक का नाम
1.	अन्तर्राष्ट्रीय राजनीति के सिद्धान्तिक पक्ष	महेश कुमार
2.	अन्तर्राष्ट्रीय राजनीति के सिद्धान्त एवं व्यवहार	गु.आर.पट्टे
3.	अन्तर्राष्ट्रीय राजनीति सिद्धान्त संकलित एवं मूद्रित	बी.एल. फादरिंग
4.	अन्तर्राष्ट्रीय संघ	सुभाष चन्द्र
5.	अन्तर्राष्ट्रीय संघ	दीनानाथ मणी
6.	थीयरी ऑफ इन्टरनेशनल पॉलिटिक्स	ड.वान्डर
7.	इन्टरनेशनल रिलेशन्स	जे.गोल्ड स्टीन
8.	द इन्टरनेशनल पॉलिटिक्स	पी.कलबरद
9.	इन्टरनेशनल रिलेशन्स	सी.साउथ
10.	संसारवादी विश्व एवं भारत	अरुणादेव बाजपेयी

Reference :-

- M.S. Agwani, *Détente: Perspectives and Repercussions*, Vikas, 1975
- John Gray, *False Dawn: The Delusions of Global Capitalism*, Grant Book, U.K., 1998
- Hans J. Morgenthau, *Politics Among Nations: The Struggle for Power and Peace*, Scientific Book Agency, Calcutta, 1972
- Mahendra Kumar, *Theoretical Aspects of International Politics*, Agra: Shiva Lal Agarwal & Co. Educational Publishers
- K.J. Holsti, *International Politics: A Framework for Analysis*, Prentice Hall of India, New Delhi, 1995.
- Paul Kennedy, *Preparing for the Twenty-First Century*, New York, 1993
- Hutchings, Kimbley, *International Political Theory*, Sage, New Delhi
- John Baylis and Steve Smith, *The Globalization of World Politics*, Oxford University Press, 2008
- Karen Mingst, *Essentials of International Relations*, New York: W.W. Norton & Company, 2007
- Kate Kelly S. Pease, *International Organizations*, New Jersey: Prentice Hall, 2000

Robert Jackson and Georg Sørensen, *Introduction to International Relations: Theories and Approaches*, Oxford University Press, 2003

- Joshua S. Goldstein & Jon C. Pevehouse, *'International Relations' 5th Edition*, Pearson Education, 2002
- J. W. Burton, *'International Relations: A General Theory'*, Cambridge University Press, New York, 1965.

Arushi
01/07/2021
Dr. Arushi Kaur

Rajni
01/07/2021

Sumita Mishra

Sumita Mishra
01/07/2021

- M.S. Agwani, *Détente: Perspectives and Repercussions*, New Delhi: Vikas, 1975
- John Gray, *False Dawn: The Delusions of Global Capitalism*, Grant Book, U.K., 1998
- Hans J. Morgenthau, *Politics Among Nations: The Struggle for Power and Peace*, Calcutta, Scientific Book Agency, Calcutta, 1972
 - Mahendra Kumar, *Theoretical Aspects of International Politics*
 - K.J. Holsti, *International Politics: A Framework for Analysis*, Prentice Hall of India, New Delhi, 1995.
 - Paul Kennedy, *Preparing for the Twenty-First Century*, New York, 1993
 - Hutchings, Kimbley, *International Political Theory*, Sage, New Delhi, 2002
 - Karen Mingst, *Essentials of International Relations*, New York: W.W. Norton & Company, 2007
 - Kate Kelly S. Pease, *International Organizations*, New Jersey: Prentice Hall, 2000
 - Robert Jackson and Georg Sorensen, *Introduction to International Relations: Theories and Approaches*, Oxford University Press, 2003
 - Joshua S. Goldstein & Jon C. Pevehouse, *'International Relations'* 5th Edition, Pearson Education, 2002.
 - J. W. Burton, *'International Relations: A General Theory'*, Cambridge University Press, New York, 1965.
 - John Baylis & Steve Smith, *'Globalization of World Politics'* OUP, U.S.A. & Delhi, 2008.

Atani
29.6.2021
Dr. Anshu Chauhan

Prasanna
01/07/2021

Sandya Mishra

Prasanna
सं. म. वि. वि. १३५८

इकाई 1 : लोक प्रशासन : अर्थ, परिभाषा, प्रकृति, क्षेत्र । लोक प्रशासन और निजी प्रशासन । अध्ययन पद्धतियाँ । नवीन लोक प्रशासन । तुलनात्मक लोक प्रशासन ।

Unit 1 : Public Administration : meaning and definition, nature, scope. Public Administration and Private Administration. Method of Studies. New Public Administration. Comparative Public Administration.

इकाई 2 : संगठन के सिद्धान्त : पदलोपान, नियंत्रण का क्षेत्र, आदेश की एकता, प्रत्यायोजन । मुख्य कार्यपालिका । सूत्र एवं स्टाफ अभिकरण । विभागीय संगठन, लोक नियम । कार्मिक प्रशासन : भर्ती, पदोन्नति, प्रशिक्षण ।

Unit 2 : Principles of Organisation : Hierarchy, Span of Control, Unity of Command, Delegation. Chief Executive, Line and Staff Agencies. Departmental Organisation, Public Corporation, Personnel Administration : Recruitment, Promotion, Training.

इकाई 3 : विकास प्रशासन : प्रकृति, मुद्दे और विशेषताएँ । सिंग मॉडल । प्रशासन में सामरिक सहभागिता । सुरासन और ई शासन । राध लोक सेवा आयोग ।

Unit 3 : Development Administration : Nature, Issues, Characteristics, Riggs Model. Public participation in Administration, Good Governance and e- Governance. Union Public Service Commission.

इकाई 4 : वित्तीय प्रशासन : बजट के सिद्धान्त । भारत में बजट प्रक्रिया । भारत में प्रशासनिक सुधार । प्रशासन पर कार्यपालिका, विधायी, न्यायिक और जन नियंत्रण ।

Unit 4 : Financial Administration: Principles of Budget, Budget procedure in India. Administrative reforms in India. Executive, Legislative, Judicial and Public Control on Administration.

इकाई 5 : प्रशासन में भ्रष्टाचार : आम्बुड्समैन, लोकपाल और लोक आयुक्त । वैश्वीकरण के युग में लोक प्रशासन । उदात्तकरण । नीकरशाही । लोक सम्पर्क । Corruption in Administration: Ombudsman, Lokpal and Lok Ayukta. Public Administration in the age of Globalisation. Liberalisation. Bureaucracy.

Anamika
03/07/2021
Dr. Anamika Banerjee

Rajni
03/07/2021

Sunita Mishra

S. Mishra
Dr. Sunita Mishra

HEMCHAND YADAV VISHWAVIDYALAYA, DURG (C.G.)

REVISED SYLLBUS

B. A. Part- III (Economics)

Subject: Development and Environmental Economics, Paper-I

UNIT 1

Economic Growth and Development: Factor affecting economic growth (labour, capital and technology), Developed and under developed Economy, Poverty-absolute & relative, Marxian model of Economic Growth, Mahalanobis Model of Economic Growth. Balanced and unbalanced growth.

UNIT 2

Problems of Population and growth pattern of population. Theory of demographic transition. Population, poverty and environment: Schumpeter's theory of economic growth, Theory of Big-Push, Nelson's theory of low-level income equilibrium trap, Theory of Critical minimum efforts,

UNIT 3

Harrod and Domar growth model, Solow's model of economic growth, Meades Neo classical models, Mrs. Joan Robinson's growth model, A. Lewis theory of unlimited supply of labour.

UNIT 4

Environment: Environmental and use, environmental disruption as an allocation, problem. valuation of environmental damages- land, water, air & forest, prevention control and abatement of pollution, choice of policy instruments in developing countries, environmental legislation, Indicators of sustainable development, environmental accounting


डॉ. विमल कर्णाल डॉ. पी. पी. उरे श्रीमती सुधीर शर्मा डॉ. सुभाष भारद्वाज डॉ. रोहित प्रसाद

UNIT 5

Concept of Intellectual Capital : Food Security, Education, Health & Nutrition, Role of agriculture in economic development, Land reforms, Efficiency & Productivity in Agriculture, new technology & Sustainable agriculture, Globalization & agriculture growth, the choice of technique appropriate technology & employment.

Reference :-

1. Behrman, S. And T.N. Shrinivasan (1995) "Hand book of Development Economics," Vol 1, 2, & 3 Elsevier, Amsterdam.
2. Ghatak,s (1986) "An introduction to development Economics", Allen & Elnein, London.
3. Sen, A.K. (Ed.) 1990 "Growth Economics", Penguin, Harmonds worth.
4. Mehrotra, S. And J. Richard (1998), Development with a Human Face, Oxford University Press new Delhi.



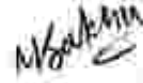
डॉ. पी. आर. सिंग



डॉ. पी. आर. सिंग



डॉ. पी. आर. सिंग



डॉ. पी. आर. सिंग



डॉ. पी. आर. सिंग

HEMCHAND YADAV VISHWAVIDYALAYA, DURG (C.G.)

REVISED SYLLBUS

B.A. Part- III (Economics)

Subject: Statistical Methods, Paper-II

UNIT 1

Statistics : Definition of Statistics, Importance and Limitations of Statistics, Importance of Statistics in Economics, Statistical investigation, Census and sampling methods of statistical investigation, Statistical data, Collections of Data, Primary & Secondary Data.

UNIT 2

Measuring of Central Tendency: Mean, Median, Mode, measures of Skewness, Probability-basic concepts meaning and definitions

UNIT 3

Dispersion: Meaning of Dispersion, Methods of measuring Dispersion, Range, Quartiles Deviation, Mean Deviation, Coefficient of Mean Deviation, Standard Deviation.

UNIT 4

Correlation Analysis: Meaning and types of correlation, Degree of correlation, Coefficient of correlation-Karl Pearson's Method, Spearman's Rank Difference Method. Probable error and standard error.


UNIT 5

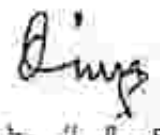
Index Number- Methods of constructing of Index Numbers, Fisher's methods, Dorbish-Bowles method, Paasches method, Laspeyres method, Consumer price index numbers, Reversal test, Circular Test, Time series analysis-Meaning, Components of time series, Measurement of long term trend by average method.


डॉ० विद्या कश्यप डॉ० जे.पी. कुर्से श्रीमती सुशीला शर्मा डॉ० सुष्मा शर्मा डॉ० रोहण प्रसाद


Reference :-

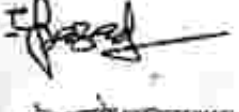
1. Shukla, S.M. and S.P. Sahay - "Quantitative Methods" Sahitya Bhawan Publication, Agra.
2. Agrawal, D.R., "Quantitative Methods", Vrinda Publications (P) Ltd.
3. Sancheti, D.C., "Quantitative Methods", Sultanchand and Sons, New Delhi.
4. Gupta, S.P. and others, "Qunatitative Techniques", Sultanchad and Sons, New Delhi.
5. मेहता एवं मदनानी, अर्थशास्त्र में प्रारंभिक गणित, लक्ष्मीनारायण अग्रवाल, आगरा-3
6. Dr. Amrendra, "An Introduction to Mathematical concepts in Economics", Pragtisheel Prakashan, New Delhi.


डॉ० अनंदा नारायण अग्रवाल


डॉ० डी.पी. सिंह


डॉ० लक्ष्मी नारायण अग्रवाल


डॉ० सुधा गुप्ता


डॉ० राजेश कुमार

SOCIOLOGY

B.A. PART- III

PAPER- I

FOUNDATIONS OF SOCIOLOGICAL THOUGHT

- UNIT-I** August Comte: The Law of Three Stages, Positivism, Hierarchy of Science.
Durkheim: Social Solidarity and Suicide
- UNIT-II** Karl Marx: Dialectic Materialism, Class Struggle and Surplus value.
Max Weber: Bureaucracy, Authority and the Protestant Ethic and the spirit of Capitalism.
- UNIT-III** Pareto: Circulation of Elites and Logical and Nonlogical action.
Spencer: Social Darwinism, Superorganic evolutions.
- UNIT-IV** Thorstein Veblen: The Theory of Leisure Class, Theory of Social Change
R.K. Merton: Functionalism and Reference Group.
- UNIT-V** Development of Sociological thought in India:-
Mahatma Gandhi : Ahimsa, Satya Graha and Trusteeship.
RadhaKamal Mukherjee: The Concept of Value.

ESSENTIAL READINGS-

1. Barres, H.E.: Introduction to the sociology, Chicago the University of Chicago press 1959.
2. Coser, Lewis a.: Master of Sociological thought, New York Harcourt Brace Jovanovich 1979.
3. Singh, Yogendra- Indian sociology: social conditioning and emerging friends. New Delhi vistaar 1986.
4. Zeitlin, Irving- (Indian edition) Rethinking sociology: A critique of contemporary theory, Jorpur Rawl 1999.






Dr. Supra Kar

SOCIOLOGY
B.A. PART- III
PAPER- II
METHODS OF SOCIAL RESEARCH

- UNIT-I** Social Research: Meaning, Characteristics and Significance.
Scientific Methods, Hypothesis.
- UNIT-II** Qualitative Research: Ethnography, Observation, Case Study, Content analysis.
- UNIT-III** Research design: Exploratory, Descriptive, Explanatory, Experimental and Diagnostic.
- UNIT-IV** Tools and Techniques of Social Research: Social Survey, Sampling, Questionnaire, Interview- Schedule and Interview - Guide
- UNIT-V** Social Statistics: Meaning, Importance and Limitations.
Graphs, Diagram and Measures of Central Tendency- Mean, Mode, Median, Co-relation, Use of Computer in Social Research.

ESSENTIAL READINGS-

01. Young, P.V. (1977). Scientific Social Surveys and Research. Prentice Hall of India. New Delhi.
02. Bruce, C., & Margaret, M. (1993). Approaches to Social Research, New York: Oxford University Press.
03. Cohen, M & Nagel, E. (1994). An Introduction to Logic and Scientific Method. New York: Harcourt, Brace & Company.
04. Forcese, D., & Richer, S. (1973). Social Research Methods. Cliffs: Englewood, Cliffs, NJ.
05. Moser, C.A. (1962). Survey Methods in Social Research Investigation. London: Heinemann, Printee Hall.
06. Goode, & Hatt. (1952). Methods in Social Research. New York: MC Graw Hill Publishers.

Arora



S. Kar
Dr. Sujata Kar



दुर्गा विश्वविद्यालय (क.वि.)

(पूर्व नाम- दुर्ग विश्वविद्यालय, दुर्ग)

संगमपुर भागा दुर्ग (छ.म.)-491001



ई मेल : academic@durgamuniversity.ac.in

वेब साइट : www.durgamuniversity.ac.in

दूरभाष : 0284-2112600

क्र. 1458 /अका./2019

दुर्ग, दिनांक 04/07/2019

प्रति,

प्राचार्य,
समस्त संबद्ध महाविद्यालय,
हेमचंद्र यादव विश्वविद्यालय,
दुर्ग (छ.म.)

विषय- स्नातक स्तर के पाठ्यक्रम विषयक।

संदर्भ- संयुक्त संचालक, उच्च शिक्षा विभाग के पत्र क्र. 2458/315/आउशि/सम/2019, दिनांक 15.05.2019।

—00—

विश्यातर्गत लेख है कि संदर्भित पत्र के माध्यम से प्राप्त स्नातक स्तर के निम्नलिखित कक्षा/विभाग के परिवर्तित/संशोधित पाठ्यक्रम शिक्षा सत्र 2019-20 से स्नातक के तीनों वर्ष के लिए लागू किया जाता है।

1. बी.कॉम. - आधार पाठ्यक्रम-हिन्दी भाषा एवं वाणिज्य।

अतः आपसे अनुरोध है कि पाठ्यक्रम परिवर्तन/संशोधन से महाविद्यालय के शिक्षकों एवं छात्र-छात्राओं को अवगत कराने का कष्ट करेंगे।

टीप :- परिवर्तित/संशोधित पाठ्यक्रम विश्वविद्यालय की वेबसाइट पर उपलब्ध है।

संलग्न : उपरोक्तानुसार


कुलसचिव

क्र. 1459 /अका./2019

दुर्ग, दिनांक 04/07/2019

प्रतिलिपि-

1. संयुक्त संचालक, उच्च शिक्षा विभाग के पत्र क्र. 2458/315/आउशि/सम/2019, दिनांक 16.05.2019 के परिप्रेक्ष्य में सूचनार्थ।
2. कुलपति के निज सहायक एवं कुलसचिव के निज सहायक, हेमचंद्र यादव विश्वविद्यालय, दुर्ग।
3. उपकुलसचिव, परीक्षा विभाग एवं उपकुलसचिव, गोपनीय विभाग हेमचंद्र यादव विश्वविद्यालय, दुर्ग।


सहा. कुलसचिव (अका.)

1.3.1 Institution integrated cross-cutting issues relevant to Gender, Environment and Sustainability, Human Values and Professional Ethics into the Curriculum

Response:

Gender: The course below which addresses Gender issue by providing the skill-set necessary for life-long learning and provide the opportunities for the students to explore subjects or areas of interest. It teaches equality in gender and also about action against bias. The course covers a large area of women related issues like women empowerment, policies, gender development and violence against women.

It is Undergraduate and Postgraduate Subject which is offered with Sociology, Geography, Economics and Home Science. It consist of papers, namely,

- M.A.-III Semester (Economics) - Paper -I: Economics of Growth (Unit-I, Gender Development)
- M.A.-III Semester (Economics) - Paper -V: Demography (Unit-V, Women Empowerment)
- M. A. - I Semester (Geography) - Paper-II: Geography of India (Unit-V, Chhattisgarh Culture Features)
- M.A. - III Semester (Geography) - Paper-XI: Population Geography (Unit-III, Population composition)
- M.A.-III Semester (Sociology) - Paper -XII: Social movement in India (Unit-II, Basis of social movement, women)
- M.A.-II Semester (Sociology) - Paper -VIII: Sociology of Development (Unit-V, Gender Discrimination)
- B.A. - II (Sociology)- Paper- I: Society in India (Unit- II, Women and Minorities)
- B.A. - III (Psychology)- Paper-II: Human Development (Unit- IV, Development of morality)
- B.A. - II (Psychology)- Paper- I: Social Psychology (Unit- V, Social, Gender discrimination)
- B.Sc. (H.Sc.)- I- Paper -VI: Personal empowerment & computer basic (Unit-II, Empowerment of Women, Unit-IV, Gender issues)
- B.Sc. (H.Sc.)- I- Paper- V: Community Development perspective ...(Unit-V, Gender Analysis)

Environment and Sustainability: The following courses address Environment and Sustainability. It appreciates the ethical, cross-culture, historical context of environmental issues and the links between human and natural systems. This enables the students to learn about the eco-system and other environmental factors. They also learn how to protect the environment and made aware of global warming and other related issues.



S2
PRINCIPAL
Govt. Dr. W. W. Patankar
Girls P.G. College, Durg (C.G.)

13.1 Institution integrated cross-cutting issues relevant to Gender, Environment and Sustainability, Human Values and Professional Ethics into the Curriculum

Response:

Gender: The course below which addresses Gender issue by providing the skill-set necessary for life-long learning and provide the opportunities for the students to explore subjects or areas of interest. It teaches equality in gender and also about action against bias. The course covers a large area of women related issues like women empowerment, policies, gender development and violence against women.

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- M.A.-III Semester (Economics) - Paper -I: Economics of Growth (Unit-I, Gender Development)
- M.A.-III Semester (Economics) - Paper -V: Demography (Unit-V, Women Empowerment)
- M. A. - I Semester (Geography) - Paper-II: Geography of India (Unit-V, Chhattisgarh Culture Features)
- M.A. - III Semester (Geography) - Paper-XI: Population Geography (Unit-III, Population composition)
- M.A.-III Semester (Sociology) - Paper -XII: Social movement in India (Unit-II, Basis of social movement, women)
- M.A.-II Semester (Sociology) - Paper -VIII: Sociology of Development (Unit-V, Gender Discrimination)
- B.A. - II (Sociology)- Paper- I: Society in India (Unit- II, Women and Minorities)
- B.A. - III (Psychology)- Paper-II: Human Development (Unit- IV, Development of morality)
- B.A. - II (Psychology)- Paper- I: Social Psychology (Unit- V, Social, Gender discrimination)
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52
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Girls P.G. College, Durg (C.G.)

संशोधित पाठ्यक्रम
बी.ए./बी.एस-सी./बी.कॉम./बी.एच.एस.-सी.
भाग - एक (आधार पाठ्यक्रम)
प्रश्न पत्र- प्रथम (हिन्दी भाषा)
(पेपर कोड -0101)

पूर्णांक- 75

1. प्रश्न पत्र 75 अंक का होगा।
2. प्रश्न पत्र अनिवार्य होगा।
3. इसके अंक श्रेणी निर्धारण के लिए जोड़े जायेंगे।
4. प्रत्येक इकाई के अंक समान होंगे।

पाठ्य विषय :-

इकाई-1

- क. पल्लवन, पत्राचार, अनुवाद, पारिभाषिक शब्दावली एवं हिंदी में पदनाम
- ख. ईदगाह (कहानी) - मुंशी प्रेमचंद

इकाई-2

- क. शब्द शुद्धि, वाच्य शुद्धि, शब्द ज्ञान-पर्यायवाची शब्द, विलोम शब्द, अनेकार्थी शब्द, समश्रुत शब्द, अनेक शब्दों के लिए एक शब्द एवं मुहावरे-लोकोक्तिवाँ
- ख. भारत वंदना (कविता)- सूर्यकान्त त्रिपाठी निराला

इकाई-3

- क. देवनागरी लिपि - नामकरण, स्वरूप एवं देवनागरी लिपि की विशेषताएँ, हिंदी अपठित गद्यांश, संक्षेपण, हिंदी में संक्षिप्तीकरण
- ख. भोलासाम का जीव (व्यंग्य) - हरिशंकर परसाई

इकाई-4

- क. कम्प्यूटर का परिचय एवं कम्प्यूटर में हिंदी का अनुप्रयोग
- ख. शिकागो से स्वामी विवेकानंद का पत्र

इकाई-5

- क. मानक हिन्दी भाषा का अर्थ, स्वरूप, विशेषताएँ, मानक, उपमानक, अमानक भाषा
- ख. सामाजिक गतिशीलता - प्राचीन काल, मध्यकाल, आधुनिक काल

मूल्यांकन योजना :-

प्रत्येक इकाई से एक-एक प्रश्न पूछा जाएगा। प्रत्येक प्रश्न में आंतरिक विकल्प होगा। प्रत्येक प्रश्न के 15 अंक होंगे। प्रत्येक प्रश्न के दो भाग 'क' और 'ख' होंगे एवं अंक क्रमशः 8 एवं 7 होंगे। प्रश्न-पत्र का पूर्णांक 75 निर्धारित है।

भाष्यक्रम संशोधन का औचित्य :-

व्याकरण के बुनियादी ज्ञान, संक्षिप्त, कौशल, सामाजिक संदेश एवं भाषायी कला को ध्यान में रखते हुए यह भाष्यक्रम प्रस्तावित है।

FOUNDATION COURSE

PAPER - II

ENGLISH LANGUAGE (Paper Code-0102)

M.M. 75

UNIT-1

Basic Language skills : Grammar and Usage.

Grammar and Vocabulary based on the prescribed text. To be assessed by objective / multiple choice tests.

(Grammar - 20 Marks
Vocabulary - 15 Marks)

05

UNIT-2

Comprehension of an unseen passage.

This should simply not only (a) an understanding of the passage in question, but also

(b) a grasp of general language skills and issues with reference to words and usage

within the passage and (c) the Power of short independent composition based on themes and issues raised in the passage.

To be assessed by both objective multiple choice and short answer type tests.

UNIT-3

Composition : Paragraph writing

10

UNIT-4

Letter writing (The formal and one Informal)

10

Two letters to be attempted of 5 marks each. One formal and one informal.

UNIT-5 Texts :

15

Short prose pieces (Fiction and not fiction) short poems, the pieces should cover a range of authors, subjects and contexts. With poetry if may sometimes be advisable to include pieces from earlier periods, which are often simpler than modern examples. In all cases, the language should be accessible (with a minimum of explanation and reference to standard dictionaries) to the general body of students schooled in the medium of an Indian language.

Students should be able to grasp the contents of each piece; explain specific words, phrases and allusions; and comment on general points of narrative or argument. Formal Principles of Literary criticism should not be taken up at this stage.

To be assessed by five short answers of three marks each.

BOOKS PRESCRIBED -

English Language and Indian Culture - Published by M.P. Hindi Grant Academy Bhopal.

Dr. M. Chaturvedi

Dr. S. Gupta

Dr. MERILY ROY

Dr. M. Chaturvedi

B. Com Part- I
Compulsory
Group - 1 Paper - 1 - Financial Accounting

OBJECTIVE - To Impart basic accounting knowledge as applicable to business.

UNIT -I

Accounting; An Introduction: Development, Definition, Needs, objectives; Branches of accounting; Basic Accounting Principles, Concepts & Conventions.
Accounting Standard: International Accounting Standard only outlines, Accounting Standard in India.
Accounting Transaction: Concept of Double Entry System, Concept of Capital & Revenue, Book of original records: Journal; Ledger; Sub-Division of Journal; Cashbook.

UNIT -II

Final Accounts; Trial balance; Manufacturing account; Trading account; Profit & loss account; Balance sheet; Adjustment entries.
Rectification of errors; Classification of errors; Location of errors; Rectification of errors; Suspense account; Effect on profit.

UNIT -III

Depreciation, Provisions, and Reserves; Concept of depreciation; Causes of deprecation; Depreciation, depletion amortization, Depreciation accounting; Methods of recording depreciation; Methods for providing depreciation; Depreciation of different assets; Depreciation of Replacement cost; Depreciation policy; as per Indian accounting Standard : provisions and Reserves. Accounts of Non-Trading Institutions.

UNIT -IV

Special Accounting Areas :
Hire-purchase and installment purchase system: Meaning of hire-purchase contract, Legal provision regarding hire-purchase contract; Accounting for goods of substantial sale values, and accounting records for goods for small values ; Installment purchase system ; After sales Service.

UNIT -V

Partnership Account: Dissolution of a Partnership Firm, Amalgamation of Partnership Firms, Conversion of Partnership Firm into Joint Stock Company.


20/6/19


20/6/19
S.K.A.


20/6/19

Suggested Readings:

1. Gupta, R.L. and Radhaswamy. M; Financial Accounting; Sultan Chand and Sons, New Delhi. (Both Hindi and English medium)
2. Monga J.R. Ahuja Grish, and Sehgal Ashok; Financial Accounting; Mayur Paper Back, Noida.
3. Shukla. M.C., Grewal T.S. and Gupta, S.C.; Advanced Accounts; S. Chand & Co. New delhi.
4. Singh B.K.; Financial Accounting; Wisdom Publishing House, Varanasi.
5. S.M. Shukla; Financial Accounting; Sahitya Bhawan Publication; Agra. (Both Hindi and English medium)
6. Karim & Khanuja; Financial Accounting; SBPD Publishing House; Agra. (Both Hindi and English medium)
7. Agrawal & Mangal; Financial Accounting; Universal Publication. (Both Hindi and English medium)


20/10/19

Dr. 
20/10/19
SFA




20/10/19

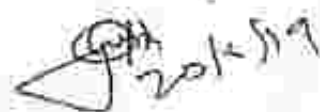
बी.कॉम. भाग - एक
अनिवार्य
समूह-1 प्रश्नपत्र - 1 - वित्तीय लेखांकन

वर्तमान पाठ्यक्रम	प्रस्तावित पाठ्यक्रम
<p>इकाई - 1 लेखांकन का अर्थ एवं क्षेत्र : आवश्यकता, विवरण एवं परिभाषा, लेखांकन के उद्देश्य, पुस्तकालन एवं लेखांकन में अन्तर, लेखांकन की शाखाएं। लेखांकन सिद्धांत, लेखांकन मानक : अन्तर्राष्ट्रीय लेखांकन मानक (सिर्फ रूपरेखा) : भारत में लेखांकन मानक। लेखांकन व्यवहार : लेखांकन चक्र : पूंजी (जर्नल) : डेबिट (विकलन) एवं क्रेडिट (समाकलन) के नियम, संयुक्त पूंजी (जर्नल) प्रविष्टि, प्रारम्भिक प्रविष्टि : जर्नल एवं खातावाही में सम्बन्ध, पूंजी एवं आगम : आय, व्यय एवं प्राप्तियों का वर्गीकरण।</p>	<p>इकाई - 1 लेखांकन का परिचय : विकास, परिभाषा, आवश्यकता, उद्देश्य, लेखांकन की शाखाएं, लेखांकन के सिद्धांत, अवधारणा एवं परंपराएं। लेखांकन मानक : अन्तर्राष्ट्रीय लेखांकन मानक (सिर्फ रूपरेखा) : भारत में लेखांकन मानक। लेखांकन व्यवहार, दोहरी प्रविष्टि प्रणाली की अवधारणा। पूंजी एवं आगम की अवधारणा, मूल प्रविष्टि की पुस्तकें, जर्नल, खातावाही, जर्नल का विभाजन : रोकड़ पुस्तक।</p>
<p>इकाई - 2 तलपट, अन्तिम खाते : निर्माणी खाता, व्यापार खाता, लाभ-हानि खाता, चिट्ठा एवं समायोजन प्रविष्टियाँ। अशुद्धियों का सुधार या संशोधन, अशुद्धियों का वर्गीकरण, अशुद्धियों की स्थिति, अशुद्धियों का सुधार, उन्नत खाता लाभ पर प्रभाव।</p>	<p>इकाई - 2 तलपट, अन्तिम खाते : निर्माणी खाता, व्यापार खाता, लाभ-हानि खाता, चिट्ठा एवं समायोजन प्रविष्टियाँ। अशुद्धियों का सुधार या संशोधन, अशुद्धियों का वर्गीकरण, अशुद्धियों की स्थिति, अशुद्धियों का सुधार, उन्नत खाता लाभ पर प्रभाव।</p>
<p>इकाई - 3 मूल्य ह्रास (अवक्षयण), आयोजन एवं संचय, ह्रास की अवधारणा, ह्रास के कारण, ह्रास रिक्तता, अपलेखन ह्रास लेखांकन, ह्रास अभिलेखन की विधियाँ, विभिन्न सम्पत्तियों पर ह्रास आयोजन की विधियाँ, प्रतिस्थापन लागत पर ह्रास, भारतीय लेखांकन मानक के अनुसार लेखांकन नीतियाँ, आयोजन एवं संचय, गैर-व्यापारिक संस्थाओं के खाते।</p>	<p>इकाई - 3 मूल्य ह्रास (अवक्षयण), आयोजन एवं संचय, ह्रास की अवधारणा, ह्रास के कारण, ह्रास रिक्तता, अपलेखन ह्रास लेखांकन, ह्रास अभिलेखन की विधियाँ, विभिन्न सम्पत्तियों पर ह्रास आयोजन की विधियाँ, प्रतिस्थापन लागत पर ह्रास, भारतीय लेखांकन मानक के अनुसार लेखांकन नीतियाँ, आयोजन एवं संचय, गैर-व्यापारिक संस्थाओं के खाते।</p>
<p>इकाई - 4 विशेष लेखांकन क्षेत्र (क) शाखा खाते : आश्रित शाखा, देनदार पद्धति, स्कन्ध एवं देनदार पद्धति। (ख) किराया क्रय एवं किस्त क्रय पद्धति : किराया क्रय अनुबन्ध का अर्थ, किराया क्रय अनुबन्ध संबंधित प्रबंधन, अधिक मूल्य की वस्तुओं के लिए लेखांकन अभिलेख, किस्त क्रय पद्धति एवं क्रय परचाह सेवा।</p>	<p>इकाई - 4 विशेष लेखांकन क्षेत्र किराया क्रय एवं किस्त क्रय पद्धति : किराया क्रय अनुबन्ध का अर्थ, किराया क्रय अनुबन्ध संबंधित प्रबंधन, अधिक मूल्य की वस्तुओं के लिए लेखांकन अभिलेख, किस्त क्रय पद्धति एवं क्रय परचाह सेवा।</p>


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वर्तमान पाठ्यक्रम	प्रस्तावित पाठ्यक्रम
<p>इकाई - 5 (क) साझेदारी खाते - साझेदारी की सारभूत विशेषताएँ, साझेदारी संलेख - अन्तिम खाते, खाते बंद होने के पर्याप्त संगणकीयन, स्थिर एवं परिवर्तनशील पूंजी, ख्याति-लेखांकन मानक 10 संयुक्त जीवन बीमा पॉलिसरी, लाभ विभाजन अनुपात में परिवर्तन, (ख) साझेदारी फर्म का पुनर्निर्माण, फर्म में साझेदार का प्रवेश, साझेदार का अतकाश ग्रहण, साझेदार की मृत्यु, फर्म का विघटन, लेखांकन प्रविष्टियाँ, साझेदारी फर्म का दिवालिया होना, फर्म के विघटन की विधियाँ, लेखांकन प्रविष्टियाँ, साझेदार का दिवालिया होना, वितरण ।</p>	<p>इकाई - 5 साझेदारी खाते - साझेदारी फर्म का विघटन, साझेदारी फर्म का एकीकरण, साझेदारी फर्म की संयुक्त इच्छा प्रकटन में परिवर्तन ।</p>

Suggested Readings:

1. Gupta, R.L. and Radhaswamy, M; Financial Accounting; Sultan Chand and Sons, New Delhi. (Both Hindi and English medium)
2. Monga J.R. Ahuja Girish, and Sehgal Ashok; Financial Accounting; Mayur Paper Back, Noida.
3. Shukla, M.C., Grewal T.S. and Gupta, S.C. : Advanced Accounts; S. Chand & Co., New Delhi.
4. Singh B.K.; Financial Accounting; Wisdom Publishing House, Varanasi.
5. S.M. Shukla; Financial Accounting; Sahitya Bhawan Publication; Agra. (Both Hindi and English medium)
6. Karim & Khanuja; Financial Accounting; SBPD Publishing House; Agra. (Both Hindi and English medium)
7. Agrawal & Mangal; Financial Accounting; Universal Publication. (Both Hindi and English medium)


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B.Com Part- I

Compulsory

Group – I Paper – II - BUSINESS COMMUNICATION

Proposed Syllabus

OBJECTIVE - To develop effective business communication skills among the students.

UNIT -I

Introducing Business Communication: Definitions, concept and Significance of communication, Basic forms of communicating; Communication models and process; principles of effective communication; Theories of communication; Self-Development and Communication; Development of positive personal attitudes, SWOT analysis.

UNIT -II

Corporate Communication: Formal and Informal communication networks; Grapevine; Miscommunication (Barriers); Improving communication. Practices in business communication; Group discussions; Seminars; Effective Listening: Principles of effective listening; Factor affective listening exercises; Oral, Written, and video session, Audience analysis and feedback.

UNIT -III

Writing skill: Business letters – Definition, concepts, structure, advantages disadvantage, need and kinds of business letter, Essentials of effective business letter. Good news and bad news letters; Office memorandum, Writing Resume and Letter of Job Application.

UNIT -IV

Report Writing: Introduction to a proposal, Short report and formal report, report preparation.
Oral Presentation: Principles of oral presentation, factor affecting presentation, sales presentation, training presentation, conducting surveys, speeches to motivate, presentation skill.


UNIT -V

Non-Verbal Aspects of Communicating. Body Language: Kinesics, Proxemics, Para Language.
Interviewing skills: Appearing in interviews; conducting interviews; mock interview.
Modern Forms of Communicating: Fax; E-Mail; video conferencing; etc.
International Communication for global business.


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Suggested Readings:

1. Dr. P. K. Agrawal, Dr. A.K. Mishra ; Business Communication ; Sahitya Bhawan Publication; Agra (Hindi medium)
2. Balasubramanyam: Business Communication; Vikas Publishing House, Delhi. (English medium)
3. Dr. Vinod Mishra: Business Communication; Sahitya Bhawan Publication; Agra. (Hindi medium)
4. Kaul: Effective Business Communication; Prentice Hall, New Delhi. (English medium).
5. Patri VR: Essentials of Communication; Greenspan Publications, New Delhi. (English medium)
6. Sengun J: Business Communication; The Real World and Your Career; Allied Publishers, New Delhi. (English medium)
7. Dr. Mishra, Shukla & Patel; Business Communication; SBPD Publishing House, Agra. (Both Hindi and English medium)


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बी.कॉम. भाग - एक

अनिवार्य

समूह-1 प्रश्नपत्र - 2 - व्यावसायिक संचार

वर्तमान पाठ्यक्रम	प्रस्तावित पाठ्यक्रम
<p>इकाई - 1 व्यावसायिक संचार परिचय: परिभाषा, अवधारणाएं एवं संचार का महत्व, संचार के आधारभूत प्रकार एवं मॉडल एवं प्रभावी संचार के सिद्धांत, प्रक्रिया, श्रोता विश्लेषण। आत्म विकास एवं संचार, सकारात्मक व्यक्तिगत दृष्टिकोण का विकास, स्वॉट विश्लेषण, मतों की परस्पर निर्भरता का प्रतिरूप।</p>	<p>इकाई - 1 व्यावसायिक संचार परिचय : परिभाषा, अवधारणाएं एवं संचार का महत्व, संचार के आधारभूत प्रकार एवं मॉडल, प्रक्रिया एवं प्रभावी संचार के सिद्धांत। आत्म विकास एवं संचार, सकारात्मक व्यक्तिगत दृष्टिकोण का विकास, स्वॉट विश्लेषण।</p>
<p>इकाई - 2 व्यावसायिक संस्था का संचार तंत्र- औपचारिक एवं अनीपचारिक संचार तंत्र, अंगूरी लता संचार, संचार की बाधाएं एवं सुधार। व्यवहार में व्यावसायिक संचार- सामूहिक परिवर्तन, साक्षात्कार, संगोष्ठी, प्रभावपूर्ण सुनना, व्यक्तिगत एवं सामूहिक प्रस्तुतीकरण एवं रिपोर्ट लेखन।</p>	<p>इकाई - 2 व्यावसायिक संस्था का संचार तंत्र- औपचारिक एवं अनीपचारिक संचार तंत्र, अंगूरी लता संचार, संचार की बाधाएं एवं सुधार। व्यवहार में व्यावसायिक संचार- सामूहिक परिवर्तन, संगोष्ठी, प्रभावपूर्ण सुनना : प्रभावपूर्ण सुनने के सिद्धांत, प्रभावपूर्ण सुनने के कारक, मौखिक, लिखित एवं विडियो सत्र का व्यावहारिक अध्ययन, श्रोता विश्लेषण एवं प्रतिपुष्टी।</p>
<p>इकाई - 3 लेखन कुशलता : व्यावसायिक संदेश की योजना एवं उसे संगोषित करना, प्रथम मसौदा, अंतिम मसौदा का पुनर्निर्माण, व्यावसायिक पत्र एवं ज्ञापन, प्रारूप: निवेदन पत्र, अनुकूल एवं प्रतिकूल संवाद पत्र, प्रेरक पत्र, विक्रय संबंधी पत्र, तक्रार का पत्र या संग्रहण पत्र, कार्योत्सर्गीन ज्ञापन व पत्र।</p>	<p>इकाई - 3 लेखन कुशलता : व्यावसायिक पत्र - परिभाषा, अवधारणा, संरचना, गुण दोष, आवश्यकता एवं विभिन्न प्रकार के व्यावसायिक पत्र, प्रभावी व्यापारिक पत्र व्यवहार के मूल तत्व। अनुकूल एवं प्रतिकूल संवाद पत्र, कार्यालयीन ज्ञापन व पत्र। जीवनवृत्त लेखन एवं नौकरी के लिए आवेदन पत्र।</p>
<p>इकाई - 4 रिपोर्ट लेखन - एक प्रस्ताव का परिचय, लघु रिपोर्ट एवं औपचारिक रिपोर्ट, रिपोर्ट लेखन की तैयारी। मौखिक प्रस्तुती: मौखिक प्रस्तुती के सिद्धांत, प्रस्तुतीकरण को प्रभावित करने वाले कारक, विक्रय प्रस्तुतीकरण, प्रशिक्षण प्रस्तुतीकरण, सर्वेक्षण आयोजित करना, प्रेरक भाषण, प्रभावी प्रस्तुती कौशल।</p>	<p>इकाई - 4 रिपोर्ट लेखन - एक प्रस्ताव का परिचय, लघु रिपोर्ट एवं औपचारिक रिपोर्ट, रिपोर्ट लेखन की तैयारी। मौखिक प्रस्तुती : मौखिक प्रस्तुती के सिद्धांत, प्रस्तुतीकरण को प्रभावित करने वाले कारक, विक्रय प्रस्तुतीकरण, प्रशिक्षण प्रस्तुतीकरण, सर्वेक्षण आयोजित करना, प्रेरक भाषण, प्रभावी प्रस्तुती कौशल।</p>
<p>इकाई - 5 अशाब्दिक संचार के पहलू - दैहिक भाषा : समय एवं पार्श्व भाषा, प्रभावपूर्ण सुनना : प्रभावपूर्ण सुनने के सिद्धांत,</p>	<p>इकाई - 5 अशाब्दिक संचार के पहलू - दैहिक भाषा, समय एवं पार्श्व भाषा.</p>

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सामग्री सुनने के कारक, मौखिक, लिखित एवं विडियो
 का व्यवहारिक अध्ययन। साक्षात्कार कुशलता
 में शामिल होना, साक्षात्कार का आयोजन,
 जीवन्मृत - सारांश लेखन एवं आभेदन पत्र।
 संचार के आधुनिक रूप - फैंस, ई मेल, वीडियो कॉन्फेरिंग
 आदि
 अंतराष्ट्रीय संचार: सांस्कृतिक संवेदनशीलता एवं सांस्कृतिक
 संदर्भ, अंतराष्ट्रीय स्थितियों में लेखन और प्रस्तुतीकरण
 करना अंतराष्ट्रीय क्रियाओं में अंतराष्ट्रीय सांस्कृतिक कारक,
 वैश्विक व्यापार के संदर्भ में।

साक्षात्कार कुशलता : साक्षात्कार में शामिल होना,
 साक्षात्कार का आयोजन, मौखिक साक्षात्कार।
 संचार के आधुनिक रूप - फैंस, ई मेल, वीडियो
 कॉन्फेरिंग आदि
 अंतराष्ट्रीय संचार : सांस्कृतिक संवेदनशीलता एवं
 सांस्कृतिक संदर्भ, भूगण्डलीय व्यावसाय के लिए
 अंतराष्ट्रीय संप्रेषण।

Suggested Readings:

1. Dr. P. K. Agrawal, Dr. A.K. Mishra ; Business Communication ; Sahitya Bhawan Publication; Agra (Hindi medium)
2. Balasubramanyam: Business Communication; Vikas Publishing House, Delhi. (English medium)
3. Dr. Vinod Mishra: Business Communication; Sahitya Bhawan Publication; Agra. (Hindi medium)
4. Kaul: Effective Business Communication; Prentice Hall, New Delhi. (English medium).
5. Patri VR: Essentials of Communication; Greenspan Publications, New Delhi. (English medium)
6. Senguin J: Business Communication; The Real World and Your Career, Allied Publishers, New Delhi. (English medium)
7. Dr. Mishra, Shukla & Patel; Business Communication; SBPD Publishing House, Agra. (Both Hindi and English medium)


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B.Com Part- I
Compulsory
Group - II
Paper - I - Business Mathematics
Proposed Syllabus

OBJECTIVE - To enable the students to have such minimum knowledge of mathematics as is applicable to business and economic situations.

UNIT -I

Simultaneous Equations- Meaning, Characteristics, Methods of Solving Equations in Two Variables- Graphical, Substitution, Elimination and Cross Multiplication.
Linear Programming -Formulation of LLP ; Graphical method of solution ; Problems relating to two variables including the case of mixed constraints .

UNIT -II

Matrices and Determinants ; Definition of a matrix ; Type of a matrices ; Algebra of matrices ; Properties of determinants ; Calculation of values of determinants upto third order ; Logarithm's & Antilogarithm's.

UNIT -III

Simple Interest and Compound Interest .
Annuities : Types of annuities ; Present value and amount of an annuity, including the case of continuous compounding ; Valuation of simple loans and debentures; Problems relating to sinking funds.

UNIT -IV

Ratio & Proportion.
Average, Percentage.

UNIT -V

Commission, Brokerage, Discount, Profit and loss.
Transportation Problems.

Suggested Readings:

1. Dr. Amarnath Dixshit, Dr. Jinendra Kumar Jain; Business Mathematics ;Himalaya Publishing House, Mumbai. (Both Hindi and English medium)
2. N.K. Nag ; Business Mathematics; Kalyani publication, New Delhi. .
3. Dr. V.K. Shukla. : Business Mathematics; Madhya Pradesh hindi Granth Academy; Bhopal.
4. S.M. Shukla; Business Mathematics; Sahitya Bhawan Publication ; Agra. (Both Hindi and English medium)
5. Dr. Karim & Agrawal ; Business Mathematics; SBPD Publishing House ; Agra. (Both Hindi and English medium)
6. Dr. Ramesh Mangal; Business Mathematics; Satish Printer and Publishers, Indore.



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वर्तमान पाठ्यक्रम	प्रस्तावित पाठ्यक्रम
<p>इकाई - 1 कलन : अवकलन : आंशिक अवकलन- द्वितीय क्रम तक, कलनो की समघातीयता एवं यूलर प्रमेय, उच्चत एवं निम्नत - एक चर के द्वितीय या उच्च क्रम से जुड़े सवाल । लघुगणक ।</p>	<p>इकाई - 1 युगपद् समीकरण - अर्थ, विशेषताएँ, दो चर वाले समीकरण को हल करने की विधियाँ - रेखीय विधि, प्रतिस्थापन विधि, विलोपन विधि, यज्ञगुणन विधि। रेखीय प्रक्रमन : रेखीय प्रक्रमन समस्या को गणितीय रूप में लिखना : ग्राफीक विधि से हल, द्विचर से संबंधित भिन्नित निराप समस्याएँ।</p>
<p>इकाई - 2 आव्यूह एवं सारणिक : आव्यूह की परिभाषा, आव्यूह के प्रकार, आव्यूह बीजागणित, सारणिक के गुण, तृतीयक्रम के सारणिकों के मान की गणना, आव्यूह का सहखण्डज, पंक्ति या स्तम्भ मूल क्रियाएँ, मूल पंक्ति या स्तम्भ क्रियाओं द्वारा आव्यूह का व्युत्क्रम ज्ञात करना, अद्वितीय हल रखने वाली तथा तीन से अधिक चर न रखने वाली युगपद् समीकरणों को हल।</p>	<p>इकाई - 2 आव्यूह एवं सारणिक : आव्यूह की परिभाषा, आव्यूह के प्रकार, आव्यूह बीजागणित, सारणिक के गुण, तृतीयक्रम के सारणिकों के मान की गणना। लघुगणक एवं प्रतिलघुगणक।</p>
<p>इकाई - 3 रेखीय प्रक्रमन : रेखीय प्रक्रमन समस्या को गणितीय रूप में लिखना : ग्राफीक विधि से हल, समस्या का कोई सम्भव हल नहीं, अनैक हल, असीम समस्या का हल, व्यर्थ निराप। परिवहन समस्या, अनुपात एवं समानुपात।</p>	<p>इकाई - 3 साधारण ब्याज एवं चक्रवृद्धि ब्याज । वार्षिकी : वार्षिकी के प्रकार, वार्षिकी का वर्तमान मूल्य एवं मिश्रधन, ब्याज का सतत संयोजन, साधारण ऋण एवं ऋणपत्र का मूल्यांकन, शोधन निधि के प्रश्न।</p>
<p>इकाई - 4 चक्रवृद्धि ब्याज एवं वार्षिकी : विभिन्न प्रकार की ब्याज दरें, वर्तमान मूल्य एवं मिश्रधन की गणना, वार्षिकी के प्रकार, वार्षिकी का वर्तमान मूल्य एवं मिश्रधन, ब्याज का सतत संयोजन, साधारण ऋण एवं ऋणपत्र का मूल्यांकन, शोधन निधि के प्रश्न।</p>	<p>इकाई - 4 अनुपात एवं समानुपात। औसत : साधारण, भारित एवं सांख्यिकीय औसत (समान्तर माध्य)। प्रतिशतता।</p>
<p>इकाई - 5 औसत, प्रतिशतता, कमीशन एवं दलाली, लाभ एवं हानि</p>	<p>इकाई - 5 कमीशन, दलाली, बट्टा, लाभ एवं हानि। परिवहन समस्या।</p>


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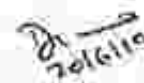




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Suggested Readings:

1. Dr. Amarnath Dikshit, Dr. Jinendra Kumar Jain; Business Mathematics ;Himalaya Publishing House, Mumbai. (Both Hindi and English medium)
2. N.K. Nag : Business Mathematics; Kalyani publication, New Delhi. .
3. Dr. V.K. Shukla. : Business Mathematics; Madhya Pradesh hindi Granth Academy; Bhopal.
4. S.M. Shukla; Business Mathematics; Sahitya Bhawan Publication ; Agra. (Both Hindi and English medium)
5. Dr. Karim & Agrawal ; Business Mathematics; SBPD Publishing House ; Agra. (Both Hindi and English medium)
6. Dr. Ramesh Mangal; Business Mathematics; Satish Printer and Publishers, Indore.


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B.Com Part- I
Compulsory
Group - II
Paper - II - BUSINESS REGULATORY FRAMEWORK
Proposed Syllabus

OBJECTIVE - To provide a brief idea about the framework of Indian business laws.

UNIT-I

Law of Contract (1872) -I : Nature of contract ; Classification ; Offer and acceptance; Capacity of parties to contract, free consent, Considerations, Legality of object; Agreement declared void.

UNIT-II

Law of Contract (1872) - II : Performance of contract, Discharge of contract; Remedies for breach of contract.

Special contracts; Indemnity ; Guarantee; Bailment and pledge; Agency.

UNIT-III

Sale of Goods Act (1930) :Formation of contracts of sale ;Goods and their classification, price, Conditions and warranties; Transfer of property in goods; Performance of the contract of sales; Unpaid seller and his rights; sale by auction; Hire purchase agreement.

UNIT-IV

Negotiable Instrument Act (1881) : Definition of negotiable instrument; Feature; Promissory note; Bill of exchange & cheque; Holder and holder in the due course; Crossing of a cheque, types of crossing; Negotiation; Dishonor and discharge of negotiable instrument.

UNIT-V

The Consumer Protection Act 1986 : Main Provision, Definition of consumer ,Consumer Disputes , Grievance redressal machinery ; Indian Partnership Act 1932.

Limited Liabilities Partnership Act 2008.

Introduction of Intellectual Property Right Act - Copyright, Patent & Trademark.

Suggested Readings:

1. Kuchal M.C. ; Business Law ; Vikas Publishing House, Delhi. (English medium)
2. Kapoor N.D. : Business Law ; Sultan Chand & Sons, New Delhi. (English medium)
3. Chandha P.R. : Business Law; Galgotia ,New Delhi. (English medium)
4. Dr. J.K. Vaishnav : Business Law; Sahitya Bhawan publication, Agra. (English medium)
5. Prof. R. C. Agrawal; Business Regulatory Framework; SBPD Publishing House, Agra. (Hindi medium)
6. K.R. Bulchandani; Business Law; Himalaya Publishing House , Mumbai. (Both Hindi and English medium)
7. R.L. Navlakha; Business Law; Ramesh Book depot, Jaipur. (Both Hindi and English medium)
8. Arun Kumar Gangele; Business Regulatory Framework; Ram Prasad & Sons, Agra. (Hindi medium)



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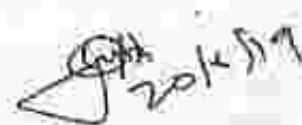

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वर्तमान पाठ्यक्रम	प्रस्तावित पाठ्यक्रम
<p>इकाई - 1 भारतीय अनुबंध अधिनियम (1872) : अनुबंध की प्रकृति : वर्गीकरण, प्रस्ताव तथा स्वीकृति, अनुबंध के योग्य पक्षकार, पक्षकारों की स्वतंत्र सहमति, प्रतिफल, उद्देश्य की वैधता, व्यर्थ घोषित ठहराव, अनुबंध का निष्पादन, अनुबंधों की समाप्ति, अनुबंध भंग के उपाय एवं परिणाम।</p> <p>इकाई - 2 विशिष्ट अनुबंध : क्षतिपूर्ति, प्रतिभूति, निक्षेप, गिरवी अनुबंध, एजेंसी।</p> <p>इकाई - 3 वस्तु विक्रय अधिनियम (1930) : वस्तु विक्रय अनुबंध का निर्माण, माल का वर्गीकरण, कीमत, शर्तें और आश्वासन, माल के स्वामित्व का हस्तांतरण, विक्रय अनुबंध का निष्पादन, अदत्त विक्रेता के अधिकार, नीलाम द्वारा विक्रय, किराया क्रय ठहराव।</p> <p>इकाई - 4 विनिमय साध्य विलेख अधिनियम (1881) : परिभाषाएं, विशेषताएं, प्रतिज्ञा पत्र, विनिमय विपत्र और घनादेश (चैक) : धारक तथा यथाविधिधारी, रेखांकित चैक, रेखांकन के प्रकार, परकामण, विनिमय साध्य विलेख का अमंदाकरण व मुक्ति।</p> <p>इकाई - 5 उपभोग्य संरक्षण अधिनियम (1986) : मुख्य विशेषताएं, उपभोग्यता की परिभाषा, उपभोग्यता विवाद निवारण अभिकरण। मुख्य प्रावधान, सूचना का अधिकार अधिनियम (2005) - मुख्य प्रावधान।</p>	<p>इकाई - 1 भारतीय अनुबंध अधिनियम (1872) : अनुबंध की प्रकृति : वर्गीकरण, प्रस्ताव तथा स्वीकृति, अनुबंध के योग्य पक्षकार, पक्षकारों की स्वतंत्र सहमति, प्रतिफल, उद्देश्य की वैधता, व्यर्थ घोषित ठहराव।</p> <p>इकाई - 2 अनुबंध का निष्पादन अनुबंधों की समाप्ति, अनुबंध भंग के उपाय एवं परिणाम। विशिष्ट अनुबंध : क्षतिपूर्ति, प्रतिभूति, निक्षेप, गिरवी अनुबंध, एजेंसी।</p> <p>इकाई - 3 वस्तु विक्रय अधिनियम (1930) : वस्तु विक्रय अनुबंध का निर्माण, माल का वर्गीकरण, कीमत, शर्तें और आश्वासन, माल के स्वामित्व का हस्तांतरण, विक्रय अनुबंध का निष्पादन, अदत्त विक्रेता के अधिकार, नीलाम द्वारा विक्रय, किराया क्रय ठहराव।</p> <p>इकाई - 4 विनिमय साध्य विलेख अधिनियम (1881) : परिभाषाएं, विशेषताएं, प्रतिज्ञा पत्र, विनिमय विपत्र और घनादेश (चैक) : धारक तथा यथाविधिधारी, रेखांकित चैक, रेखांकन के प्रकार, परकामण, विनिमय साध्य विलेख का अमंदाकरण व मुक्ति।</p> <p>इकाई - 5 उपभोग्य संरक्षण अधिनियम (1986) : मुख्य विशेषताएं, उपभोग्यता की परिभाषा, उपभोग्यता विवाद निवारण अभिकरण। भारतीय साझेदारी अधिनियम 1932। सीमित दायित्व वाली साझेदारी अधिनियम 2008। बौद्धिक संपदा अधिकार अधिनियम का परिचय - कॉपीराइट, पेटेंट एवं ट्रेडमार्क।</p>


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Suggested Readings:

1. Kuchal M.C. ; Business Law ; Vikas Publishing House, Delhi. (English medium)
2. Kapoor N.D. : Business Law ; Sultan Chand & Sons, New Delhi. (English medium)
3. Chandha P.R. : Business Law; Galgotia ,New Delhi. (English medium)
4. Dr. J.K. Vaishnav ; Business Law; Sahitya Bhawan publication, Agra. (English medium)
5. Prof. R. C. Agrawal; Business Regulatory Framework; SBPD Publishing House, Agra. (Hindi medium)
6. K.R. Bulchandani; Business Law; Himalaya Publishing House , Mumbai. (Both Hindi and English medium)
7. R.L. Navlakha; Business Law; Ramesh Book depot, Jaipur. (Both Hindi and English medium)
8. Arun Kumar Gangele; Business Regulatory Framework; Ram Prasad & Sons, Agra. (Hindi medium)


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B.Com Part- I

Compulsory

Group - III

Paper - I - BUSINESS ENVIRONMENT Proposed Syllabus

OBJECTIVE - To acquainting the students with the emerging issues in business at the national and international level in the light of the policies of liberalization and globalization.

UNIT -I

Business Environment : Concept, Components and Importance ,Economic Trends (overview) ;
Income : Saving and investment ; Trade and balance of payment, Money and Finance .

UNIT -II

Problems of Growth ; Unemployment ; Poverty ; Regional imbalances ; Social Injustice; Inflation ;
Parallel economy ; Industrial sickness.

UNIT -III

Role of Government ; Monetary and fiscal policy ; Industrial policy ; Industrial licensing,
Privatization ; Liberalisation, Globalisation Devaluation; Demonitisation; Export-import policy.

UNIT -IV


Economic Planning in India : Need, objectives, Strategy; Review of Previous Plans, Planning
Commission.
Foreign Exchange Management Act 2000 : Basic Concept and Main Provisions.

UNIT -V

International Environment ; Trends in World trade and the problems of developing countries;
Foreign trade and economic growth; International economic groupings - GATT, WTO, UNCTAD,
World Bank, IMF; FDI.

Suggested Readings:

1. Agarwal A. N. : Indian Economy, Vikas Publishing House Delhi. (English medium)
2. Khan Farooq A : Business and Society; S. Chand , Delhi. (English medium)
3. Dutt R. and Sundharam K. Pm. ; Indian Economy; S. Chand , Delhi. (English medium)
4. Misra S.K. and Puri V.K. : Indian Economy; Himalaya Publishing House, New Delhi. (English medium)
5. Dr. V.C. Sinha; Business Environment; SBPD Publishing House, Agra . (Both Hindi and English medium)
6. Dr. J. K. Jain; Business Environment; Madhya Pradesh hindi Granth Academy; Bhopal. (Hindi medium)
7. Gupta & Pathak; Business Environment; Ram Prasad & Sons, Rajpur. (Hindi medium)
8. S.K. Singh; Business Environment; SBPD Publishing House, Agra . (Both Hindi and English medium)


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बी.कॉम. भाग - एक
अनिवार्य
समूह-3 प्रश्नपत्र - 1 - व्यावसायिक पर्यावरण

वर्तमान पाठ्यक्रम	प्रस्तावित पाठ्यक्रम
<p>इकाई - 1 भारतीय व्यावसायिक पर्यावरण : अवधारणा, संघटक व महत्व। आर्थिक प्रवृत्तियाँ : आय, नक़्त एवं विनियोग, औद्योगिक प्रवृत्तियाँ, व्यापार एवं भुगतान सन्तुलन, मुद्रा, वित्त तथा कोष।</p>	<p>इकाई - 1 व्यावसायिक पर्यावरण : अवधारणा, संघटक व महत्व, आर्थिक प्रवृत्तियाँ : आय, नक़्त एवं विनियोग, व्यापार एवं भुगतान सन्तुलन, मुद्रा एवं वित्त।</p>
<p>इकाई - 2 विकास की समस्याएँ : बेरोजगारी, निर्धनता एवं क्षेत्रीय असन्तुलन, सामाजिक अन्याय, मुद्रारक्षीति, समांतर अर्थव्यवस्था, औद्योगिक रूग्णता।</p>	<p>इकाई - 2 विकास की समस्याएँ : बेरोजगारी, निर्धनता एवं क्षेत्रीय असन्तुलन, सामाजिक अन्याय, मुद्रारक्षीति, समांतर अर्थव्यवस्था, औद्योगिक रूग्णता।</p>
<p>इकाई - 3 शासन की भूमिका : मौद्रिक एवं राजकोषीय नीति, औद्योगिक नीति, औद्योगिक लाइसेंसिंग नीति, निजीकरण, अवमूल्यन, निर्यात-आयात नीति, विदेशी विनियोग का नियमन।</p>	<p>इकाई - 3 शासन की भूमिका (वर्तमान परिदृश्य में) : मौद्रिक एवं राजकोषीय नीति, औद्योगिक नीति, औद्योगिक लाइसेंसिंग नीति, निजीकरण, उदासीकरण, भूमण्डलीकरण, अवमूल्यन, विमुद्रिकरण, निर्यात-आयात नीति, विदेशी विनियोग का नियमन।</p>
<p>इकाई - 4 पुर्व योजनाओं की समीक्षा, चालू पंचवर्षीय योजना : मुख्य रणनीति, संसाधनों आवंटन।</p>	<p>इकाई - 4 भारत में आर्थिक नियोजन : आवश्यकता, उद्देश्य एवं व्यूहरचना, पुर्व पंचवर्षीय योजनाओं की समीक्षा, चालू पंचवर्षीय योजना। विदेशी विनियम प्रबंध अधिनियम 2000 : अवधारणा एवं मुख्य प्रवधान।</p>
<p>इकाई - 5 अंतरराष्ट्रीय पर्यावरण : अंतरराष्ट्रीय व्यापारिक पर्यावरण, विश्व व्यापार की प्रवृत्ति एवं विकासशील देशों की समस्याएँ, विदेशी व्यापार एवं आर्थिक विकास, अंतरराष्ट्रीय आर्थिक समूह-अंतरराष्ट्रीय अर्थव्यवस्था की संस्थाएँ, विश्व व्यापार संगठन, व्यापार एवं प्रभुत्व एवं व्यापार संबंधि सामान्य समझौता (गैट), विश्व बैंक, अंतरराष्ट्रीय मुद्रा कोष, अंतरराष्ट्रीय पुनर्निर्माण एवं विकास बैंक, प्रति व्यापार, एफ. डी. आई।</p>	<p>इकाई - 5 अंतरराष्ट्रीय पर्यावरण : विश्व व्यापार की प्रवृत्ति एवं विकासशील देशों की समस्याएँ, विदेशी व्यापार एवं आर्थिक विकास, अंतरराष्ट्रीय आर्थिक समूह- प्रभुत्व एवं व्यापार संबंधि सामान्य समझौता (गैट), विश्व व्यापार संगठन, विश्व बैंक, अंतरराष्ट्रीय मुद्रा कोष, प्रत्यक्ष विदेशी निवेश, संयुक्त राष्ट्र व्यापार एवं विकास संगठन (अंक्टाइ)।</p>

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Suggested Readings:

1. Agarwal A. N. : Indian Economy, Vikas Publishing House Delhi. (English medium)
2. Khan Farooq A : Business and Society; S. Chand , Delhi. (English medium)
3. Dutt R. and Sundharam K. Pm. ; Indian Economy; S. Chand , Delhi. (English medium)
4. Misra S.K. and Puri V.K. : Indian Economy; Himalaya Publishing House, New Delhi. (English medium)
5. Dr. V.C. Sinha; Business Environment; SBPD Publishing House, Agra . (Both Hindi and English medium)
6. Dr. J. K. Jain; Business Environment; Madhya Pradesh Hindi Granth Academy; Bhopal. (Hindi medium)
7. Gupta & Pathak; Business Environment; Ram Prasad & Sons, Raipur. (Hindi medium)
8. S.K. Singh; Business Environment; SBPD Publishing House, Agra . (Both Hindi and English medium)


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B.Com Part- I

Compulsory

Group - III - Business Economics

Paper - II - BUSINESS ECONOMICS

Proposed Syllabus

OBJECTIVE - To acquaint the students with the principles of Business Economics as are applicable in business.

UNIT -I

Introduction : Definition, Nature and Scope of Economics, Difference Between Micro and Macro Economics, Method of Economic Study : Inductive and Deductive Methods.
Basic problem of Economy, Working of Price Mechanism.
Utility Analysis: Measurements of Utility, Law of Diminishing Marginal Utility, Law of Equi-Marginal Utility.

UNIT-II

Law of demand: Meaning and Definitions, Effecting Factors, Types ; Exception of Law of demand.
Elasticity of Demand : Concept, Definitions, Importance, Types and Measurement of Elasticity of Demand, Factors affecting the Elasticity of Demand.

UNIT -III

Production : Factors of Production, their characteristics and importance.
Production Functions : Law of Variable Proportions, Return to scale and Equal Product Curve Analysis. Internal and external economies and diseconomies.

UNIT -IV

Market Structure - Concept, Characteristics, Classification. Determination of Price under condition of Perfect Competition, Imperfect Competition and Monopoly, Monopolistic Competition, Oligopoly and Duopoly.


UNIT -V

Theories of distribution, Marginal Productivity theory of distribution, Concept and theories of Wages, Rent, Interest & Profit.


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Suggested Readings:

1. John P. Gould, Jr. and Edward P. Lazear: Micro economic theory; All India Traveller, Delhi. (English medium)
2. Koutsoyianni A. : Modern Microeconomics: Macmillan, New Delhi. (English medium)
3. Khan Farooq A : Business and Society; S. Chand , Delhi. (English medium)
4. Misra S.K. and Puri V.K. : Indian Economy; Himalaya Publishing House, New Delhi. (English medium)
5. M. L. Jhingan : Micro Economics, Vrinda publication, Delhi. (Both English and Hindi medium)
6. Dr. J. K. Jain; Business Economics; Madhya Pradesh hindi Granth Academy; Bhopal. (Hindi medium)
7. Dr. V.C. Sinha; Business Economics; SBPD Publishing House, Agra. (Both English and Hindi medium)
8. Dr. Jai Prakash Misra; Business Economics; Sahitya Bhawan Publication. Agra. (Hindi medium)


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वी.कॉम. भाग - एक
अनिवार्य

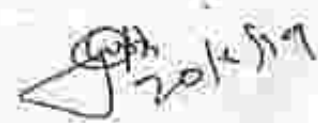
समूह-3 प्रश्नपत्र - 2 - व्यावसायिक अर्थशास्त्र

वर्तमान पाठ्यक्रम	प्रस्तावित पाठ्यक्रम
<p>इकाई - 1 परिचय : अर्थशास्त्र की मुख्य समस्याएं, कीमत संयंत्र के कार्य, मांग की लोच, मांग की लोच मापने की विधियां एवं अवधारणाएं : कीमत, आय तथा आठवीं लोच, अंततः आगम, सीमान्त आगम एवं मांग की लोच, मांग की लोच का निर्धारण तथा मांग की लोच का महत्व।</p> <p>इकाई - 2 उत्पादन फलन, परिवर्तन अनुपात का नियम, समोत्पाद, विस्तार पथ, पैमाने के प्रतिफल, आंतरिक एवं बाह्य मितव्ययिता एवं अपमितव्ययिता।</p> <p>इकाई - 3 लागत अवधारणाएं, अल्पकालीन एवं दीर्घकालीन लागत वक्र, परम्परागत एवं आधुनिक विचारधारा। बाजार संरचना तथा व्यावसायिक निर्णयन, व्यावसायिक फर्म के उद्देश्य। (अ) पूर्ण प्रतियोगिता, लाग अधिकतमीकरण तथा फर्म का साम्य, औद्योगिक अल्पकालीन एवं दीर्घकालीन पूर्ति वक्र, कीमत एवं उत्पाद निर्धारण। (ब) एकाधिकार : एकाधिकार में मूल्य निर्धारण, फर्म का साम्य, पूर्ण प्रतियोगिता एवं एकाधिकार में अन्तर, एकाधिकार के अंतर्गत कीमत विभेद।</p> <p>इकाई - 4 बाजार संरचना (अ) एकाधिकृत प्रतियोगिता : आशय एवं विशेषताएं, कीमत एवं उत्पाद निर्धारण, उत्पाद विभेद, विक्रय लागत, पूर्ण प्रतिस्पर्धा से तुलना, अतिरिक्त क्षमता सिद्धांत। (ब) अल्पाधिकार : विशेषताएं, कीमत एवं उत्पाद निर्धारण, परंपरागत मॉडल, कीमत नेतृत्व, कपटपूर्ण अल्पाधिकार।</p> <p>इकाई - 5 कीमत कारक - I सीमान्त उत्पादकता सिद्धांत तथा मांग कारक, पूर्ति की प्रकृति, पूर्ण प्रतियोगिता एवं एकाधिकार में मजदूरी दर का निर्धारण, श्रम का शोषण। कीमत कारक - II - लगान अवधारणा, रिकार्डों का</p>	<p>इकाई - 1 परिचय: अर्थशास्त्र की परिभाषा, प्रकृति एवं क्षेत्र, व्यष्टि एवं समाष्टि अर्थशास्त्र में भेद, आर्थिक अध्ययन की प्रणालियां : निगमन एवं आगमन। अर्थशास्त्र की मूल समस्याएं, कीमत संयंत्र का कार्यकरण। उपयोगिता विश्लेषण - उपयोगिता की माप, सीमांत उपयोगिता हस्त नियम, समसीमांत उपयोगिता नियम।</p> <p>इकाई - 2 मांग का नियम : अर्थ, परिभाषा, प्रभावित करने वाले घटक, मांग के रूप, मांग के नियम के अपवाद। मांग की लोच : अवधारणा, परिभाषा, महत्व, प्रकार एवं मापन की विधियां, मांग की लोच को प्रभावित करने वाले घटक।</p> <p>इकाई - 3 उत्पादन : उत्पादन के कारक, उनकी विशेषताएं एवं महत्व। उत्पादन फलन : परिवर्तनशील अनुपातों का नियम, पैमाने का प्रतिफल, समोत्पाद वक्र विश्लेषण। आंतरिक एवं बाह्य मितव्ययिता एवं अपमितव्ययिता।</p> <p>इकाई - 4 बाजार संरचना: अवधारणा, परिभाषाएं, विशेषताएं एवं वर्गीकरण। पूर्ण प्रतियोगिता, अपूर्ण प्रतियोगिता, एकाधिकारी प्रतियोगिता, एकाधिकृत प्रतियोगिता, अल्पाधिकार एवं द्वयाधिकार में कीमत निर्धारण।</p> <p>इकाई - 5 वितरण का सिद्धांत : सीमान्त उत्पादकता का सिद्धांत, मजदूरी, लगान, ब्याज एवं लाभ की अवधारणा एवं सिद्धांत।</p>


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वर्तमान पाठ्यक्रम	प्रस्तावित पाठ्यक्रम
<p>नए सिद्धांत तथा लगान का आधुनिक सिद्धांत, ब्याज, अपव्यय तथा ब्याज का सिद्धांत लाभ की प्रकृति, अपव्यय तथा लाभ के सिद्धांत।</p>	

Suggested Readings:

1. John P. Gould, Jr. and Edward P. Lazear: Micro economic theory; All India Traveller, Delhi. (English medium)
2. Koutsoyianni A. : Modern Microeconomics; Macmillan, New Delhi. (English medium)
3. Khan Farooq A : Business and Society; S. Chand , Delhi. (English medium)
4. Misra S.K. and Puri V.K. : Indian Economy; Himalaya Publishing House, New Delhi. (English medium)
5. M. L. Jhingan : Micro Economics, Vrinda publication, Delhi. (Both English and Hindi medium)
6. Dr. J. K. Jain; Business Economics; Madhya Pradesh hindi Granth Academy; Bhopal. (Hindi medium)
7. Dr. V.C. Sinha; Business Economics; SBPD Publishing House, Agra. (Both English and Hindi medium)
8. Dr. Jai Prakash Misra; Business Economics; Sahitya Bhawan Publication, Agra. (Hindi medium)

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B. COM - I (COMPUTER APPLICATION)
PAPER - I
COMPUTER FUNDAMENTALS

MAX MARKS : 50

Note :- The Question Paper setter is advised to prepare unit-wise question with the provision of internal choice.

UNIT-I INTRODUCTION TO COMPUTERS

Computer System: Characteristics and capabilities. **Computer Hardware and Software:** Block Diagram of Computer, Different Data Processing: Data, Data Processing System, Storing Data, Processing Data. **Types of Computers:** Analog, Digital, Hybrid General and Special Purpose Computers. **Generation of Computers.** **Computer Systems:** Micro, Minis & Main-Frames. **Limitations of Micro Computer.** **Number systems:** Decimal number system. Binary number system. Octal and Hexadecimal number system. 1's and 2's complement. **Codes:** ASCII, EBCDIC codes, Gray code and BCD. **Logic Gates:** AND, OR, NOT GATES and their Truth tables, NOR NAND and XOR gates.

UNIT-II COMPUTER PERIPHERALS

Introduction to Input Devices: Categorizing Input Hardware, Keyboard, Direct Entry- Card Readers Scanning Devices - O.M.R. Character Readers, Thumb Scanner, MICR Smart Cards, Voice Input Devices Pointing Devices - Mouse Light Pen, Touch Screen. **Computer Output :** Output Fundamentals, Hardcopy Output Devices, Impact Printers, Non-Impact Printers, Plotters, Computer output Microfilm/Microfiche (COM) System, Softcopy Output Devices, Cathode-Ray Tube, Flat-Screen Technologies, Projectors, Speakers.

UNIT-III BASIC COMPONENTS AND STORAGE

Central Processing Unit : The Microprocessor, control unit, A.L.U., Registers, Buses, Main Memory, Main Memory(RAM) for microcomputers, Read Only Memory(ROM). **Storage Devices:** Storage Fundamentals, Primary and Secondary Storage, Data Storage and Retrieval Methods - Sequential, Direct & Indexed Sequential, Tape Storage and Retrieval Methods Tape storage Devices, characteristics and limitations, Direct access Storage and Microcomputers - Hard Disks, Disk Cartridges, Direct Access Storage Devices for large Computer systems, Mass storage systems and Optical Disks, CD ROM.

UNIT-IV COMPUTER SOFTWARE AND LANGUAGES

System Software: System software Vs. Application Software, Types of System Software, Introduction and Types of Operating Systems, Boot Loader, Diagnostic programs, BIOS, Utility Programs, **Application Software :** Microcomputer Software, Interacting with the System, Trends in PC software, Types of Application Software, Difference between Program and Packages. **Computer Language:** Definition, Generations of Computer languages, Types of Languages, **Language Processors:** Assembler, Interpreter, Compiler, Linker and Loader, Programming constructs, Algorithm and flowchart.

UNIT-V INTRODUCTION TO MS-DOS AND WINDOWS:

Introduction to DOS: History and Versions of DOS Fundamentals of DOS: Physical Structure of the Disk, Compatibility of drives, Disks & DOS versions, Preparing Disks for use, Device Names. Getting Started with DOS: Booting Process (DOS, Windows, UNIX), System Files and Command.com, Internal DOS files & Directories, Elementary External DOS Commands, Creating a Batch Files, Additional Commands. **Microsoft Windows:** Operating system, Definition and functions, basics of Windows. Basic components of windows, icons, types of icons, taskbar, activating windows, using desktop, title bar, running applications, exploring computer, managing files and folders, copying and moving files and folders, Control panel-display properties, adding and removing software and hardware setting date and time, screen saver and appearance. Using windows accessories.

TEXT BOOK

1. Introduction to Information Technology, V. Rajaraman, PHI Sixth Edition.
2. Computer Fundamentals, P.K. Sinha, BFB Publication, Sixth Edition.
3. Fundamentals of Information Technology, Chetan Shrivastava, Kalyan Publishers.
4. Computers Today, Suresh K. Basandra, Galgotia Publications.

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B. COM - I (COMPUTER APPLICATION)

PAPER - II

PC S/W & MM

MAX MARKS: 50

Note :- The Question Paper setter is advised to prepare unit-wise question with the provision of internal choice.

UNIT-I USING OFFICE MS-WORD

Introduction to word processing software and its features, Creating new document, Saving documents, Opening and printing documents. **Home Tab:** Setting fonts, Paragraph settings, various styles (Normal, No spacing, Heading1, Heading2, Title Strong), Find & replace, Format Printer, Copy paste and paste special. **Insert Tab:** Pages, Tables, pictures, clipart, shapes, header & footer, word art, equation and symbols. **Page Layout Tab:** Page setup, page Background, Paragraph (indent and spacing). **Mailing Tab:** Create envelopes and Labels, Mail merge. **Review Tab:** Spelling and grammar check, new comment, Protect document. **View Tab:** Document views, zoom, Window (New window, Split, Switch window).

UNIT-II WORKING WITH MS-EXCEL

Introducing Excel, Use of Excel sheet, Creating new sheet, Saving, Opening & Printing workbook. **Home Tab:** Font, Alignment, Number, Styles and cells and editing, Conditional Formatting. **Insert Tab:** Table, Charts (Column Chart, Pie chart, Bar chart, Line chart) and Texts (heading & Footer, word art, signature line). **Page Layout Tab:** Page setup options, Scale to fit (width, height, scale) **Formulas Tab:** Autosum (sum, average, min, max), Logical (IF, and, or, not, true, false), Math & trig (sin, cos, tan, ceiling, floor, fact, mod, log), watch window. **Data Tab:** Get external data from MS Access, Sort and filter options, Data validation, Group and ungroup. **Review Tab:** Protect sheet, Protect workbook and Share workbook. **View Tab:** Page break, Page layout, Freezing panes, Split and hide.

UNIT-III WORKING WITH MS-POWERPOINT

Introducing power point, Use of power point presentation, Creating new slides saving, Opening and printing. **Home Tab:** New slide, Layout, Reset, Delete, Setting text direction, Align text, Convert to smart art, drawing options. **Insert Tab:** Table picture, clipart, photo album, smart art, shapes and chart, movie and sound, hyperlink and action, text box, word art, object. **Design Tab:** Page setup option, slide orientation, applying various themes, selecting background style and formatting it. **Animation Tab:** Custom animation for entrance, exit and emphasis, applying slide transition, setting transition speed and sound, animation on rehearse timing. **Slide show & View Tab:** Start slide show options, setup option. **View Tab:** Presentation views, colours and window option.

UNIT-IV WORKING WITH MS-ACCESS

Front end and back end of application, Introduction to DMBS, features of dbms, Creating blank databases, Saving it in accdb format. Defining data type in MS Access. **Home Tab:** Datasheet view, design view, pivot chart view, pivot table view, sort and filter options. **Create Tab:** Creating tables, creating reports, query wizard. **External Data Tab:** Importing data from access and excel sheet, exporting data to excel and MS word. **Datasheet Tab:** Relationships, fields and columns options, Data type and formatting options.

UNIT-V ANIMATION AND GRAPHICS

Basic concept of 2D/3D Animation, Principle of animation, application of Multimedia, hardware and Software resources requirement for animation, introduction of various file formats (.mpeg, .gif, .jpeg, .mp4, .tif, .flv) **Creating a new movie in flash:** Get set Up, Input Text, Animate Text, Drawing and painting with tools, brush, create basic shapes like oval, Rectangle & Polystar Tools, Tools working with object & filing the object. Transformation object properties dialog box, creating layers motion tweeing, shape tweeing, Mask layers, basic action scripts, importing sound trough Flash.

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Part - I

SYLLABUS FORENVIRONMENTAL STUDIES AND HUMAN RIGHTS

(Papercode-0828)

MM. 75

इन्वारमेंटल साईसे के पाठ्यक्रम को स्नातक स्तर भाग-एक की कक्षाओं में विश्वविद्यालय अनुदान आयोग के निर्देशानुसार अनिवार्य रूप से शिक्षा सत्र 2003-2004 (परीक्षा 2004) से प्रभावशील किया गया है। स्वशासी महाविद्यालयों द्वारा भी अनिवार्य रूप से अंगीकृत किया जाएगा।

भाग 1, 2 एवं 3 में से किसी भी वर्ष में पर्यावरण प्रश्न-पत्र उत्तीर्ण करना अनिवार्य है। तभी उपाधि प्रदाय योग्य होगी।

पाठ्यक्रम 100 अंकों का होगा, जिसमें से 75 अंक सैद्धांतिक प्रश्नों पर होंगे एवं 25 अंकक्षेत्रीय कार्य (Field Work) पर्यावरण पर होंगे।

सैद्धांतिक प्रश्नों पर अंक - 75 (सभी प्रश्न इकाई आधार पर रहेंगे जिसमें विकल्प रहेगा)

- | | | |
|----------------------|---|--------|
| (अ) लघु प्रश्नोंत्तर | - | 25 अंक |
| (ब) निबंधात्मक | - | 50 अंक |

Field Work- 25 अंकों का मूल्यांकन आंतरिक मूल्यांकन पद्धति से कर विश्वविद्यालय को प्रेषित किया जावेगा। अभिलेखों की प्रायोगिक उत्तर पुस्तिकाओं के संगत संबंधित महाविद्यालयों द्वारा सुरक्षित रखेंगे।

उपरोक्त पाठ्यक्रम से संबंधित परीक्षा का आयोजन वार्षिक परीक्षा के साथ किया जाएगा।

पर्यावरण विज्ञान विषय अनिवार्य विषय है, जिसमें अनुत्तीर्ण होने पर स्नातक स्तर भाग-एक के छात्र/छात्राओं को एक अन्य विषय के साथ पूरक की पात्रता होगी। पर्यावरण विज्ञान के

सैद्धांतिक एवं फील्ड वर्क के संयुक्त रूप से 33 (तीस प्रतिशत) अंक उत्तीर्ण होने के लिए अनिवार्य होंगे।

स्नातक स्तर भाग-एक के समस्त नियमित/भूतपूर्व/अमहाविद्यालयीन छात्र/छात्राओं को अपना फील्ड वर्क सैद्धांतिक परीक्षा की समाप्ति के पश्चात् 10 (दस) दिनों के भीतर संबंधित महाविद्यालय/परीक्षा केन्द्र में जमा करेंगे एवं महाविद्यालय के प्राचार्य/केन्द्र अधीक्षक, परीक्षकों की नियुक्ति के लिए अधिकृत रहेंगे तथा फील्ड वर्क जमा होने के सात दिनों के भीतर प्राप्त अंक विश्वविद्यालय को भेजेंगे।

UNIT-I THE MULTI DISCIPLINARY NATURE OF ENVIRONMENTAL STUDIES

Definition, Scope and

Importance Natural Resources:

Renewable and Nonrenewable Resources

- (a) Forest resources: Use and over-exploitation, deforestation, Timber extraction, mining, dams and their effects on forests and tribal people and relevant forest Act.
- (b) Water resources: Use and over-utilization of surface and ground water, floods drought, conflicts over water, dam's benefits and problems and relevant Act.
- (c) Mineral resources: Use and exploitation, environmental effects of extracting and using mineral resources.
- (d) food resources: World food problems, changes caused by agriculture and overgrazing, effects of modern agriculture, fertilizer-pesticide problems, water logging, salinity.
- (e) Energy resources: Growing energy needs, renewable and non-renewable energy sources, use of alternate energy sources.
- (f) Land resources: Land as a resource, land degradation, man induced landslides, soil erosion and desertification.

(12 Lecture)

UNIT-II ECOSYSTEM

(a) Concept, Structure and Function of an ecosystem

- Producers, consumers and decomposers.
- Energy flow in the ecosystem
- Ecological succession
- Food chains, food webs and ecological pyramids.
- Introduction, Types, Characteristics Features, Structure and Function of Forest, Grass, Desert and Aquatic Ecosystem.

(b) Biodiversity and its Conservation

- Introduction - Definition: genetic, species and ecosystem diversity
- Bio-geographical classification of India.
- Value of biodiversity: Consumptive use, productive use, social ethics, aesthetic and option
- Biodiversity at global, National and local levels.
- India as mega-diversity nation.
- Hot spots of biodiversity.
- Threats to biodiversity: habitat loss, poaching of wildlife, man-wild life conflict.
- Endangered and endemic species of India.
- Conservation of biodiversity: In situ and Ex-situ conservation of biodiversity.

UNIT-IV
 General background and historical perspective- Historical development and concept of Human Rights. Meaning and definition of Human Rights, Kind and Classification of Human Rights.
 Protection of Human Rights under the UNO Charter, protection of Human Rights under the Universal Declaration of Human Rights, 1948.
 Convention on the Elimination of all forms of Discrimination against women,
 Convention on the Rights of the Child, 1989.

UNIT-V
 Impact of Human Rights norms in India, Human Rights under the Constitution of India, Fundamental Rights under the Constitution of India, Directive Principles of State policy under the Constitution of India, Enforcement of Human Rights in India.
 Protection of Human Rights under the Human Rights Act, 1993- National Human Rights Commission, State Human Rights Commission and Human Rights court in India. Fundamental Duties under the Constitution of India.

Reference/ Books Recommended

1. SK Kapoor- Human rights under International Law and Indian Law.
2. HO Agrawal- Internation Law and Human Rights
3. एस.के. कपूर -मानव अधिकार
4. जे.एन. पण्डेय - भारत का संविधान
5. एम.डी. चतुर्वेदी - भारत का संविधान
6. J.N.Pandey - Constitutional Law of India
7. Agarwal K.C. 2001 Environmental Biology, Nidi pub. Ltd. Bikaner
8. Bharucha Erach, the Biodiversity of India, Mapin pub. Ltd. Ahmedabad 380013, India. Email: mapin@iccn.net(R)
9. Bruinner R.C. 1989, Hazardous Waste Incineration. McGraw Hill Inc. 480p
10. Clark R.S. Marine pollution, Clarendon press Oxford (TB)
11. Cumingham, W.P. Cooper. T.H. Gorhani, E & Hepworth. M.T. 200
12. Dr. A.K.- Environmental Chemistry. Wiley Eastern Ltd.
13. Down to Earth, Center for Science and Environment (R)
14. Gleick, H.P. 1993 Water in crisis. pacific institute for studies in Deve. Environment & Security. Stockholm Eng. Institute. Oxford University, Press. m473p.
15. Hawkins R.E. Encyclopedia of Indian Natural History, Bombay Natural History Society, Mumbai (R)
16. Heywood, V.H. & Watson, T.T. 1995 Global Biodiversity Assessment, Cambridge Univ. Press 1140p
17. Jadhav H. & Bhosale, V.H. 1995 Environmental Protection and Law. Himalya pub. House, Delhi 284p
18. Mckinney M.L. & School R.M. 1996, environmental Science systems & solutions, web enhanced edition, 635
19. Mhadkar A.K. Matter Hazardous, Techno-Science publication (TB)
20. Miller T.G. Jr, Environment Science, Wadsworth publication co. (TB)
21. Odum E.P. 1971, Fundamentals of Ecology, W.B. Saunders Co. USA, 574p
22. Rao M.N. & Datta, A.K. 1987, Waste water treatment, Oxford & IBH pub. co. Pvt. Ltd 345p
23. Sharma B.K. 2001, Environmental chemistry, Goel pub. House, Meerut
24. Survey of the Environment, The Hindu (M)
25. Townsend C. Harper J. And Michael Begon, Essentials of Ecology, Blackwell Science (TB)
26. Trivedi R.K. Handbook of Environment Laws, Rules, Guidelines, Compliances and Standards, Vol land II, Environment Media (R)
27. Trivedi R.K. and P.K. Goel, Introduction to air pollution, Techno-Science publication (TB)
28. Wanger K.D. 1998, Environmental Management. W.B. Saunders Co. Philadelphia, USA 499p



हेमचंद यादव विश्वविद्यालय, दुर्ग (छ.ग.)

(पूर्व नाम- दुर्ग विश्वविद्यालय, दुर्ग)

रायपुर लाकन दुर्ग (छ.ग.)-491001



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दूरभाष : 0788-2359400

क्र. 1458 /अका./2019

दुर्ग, दिनांक 04/07/2019

प्रति,

प्राचार्य,

समस्त संबद्ध महाविद्यालय,

हेमचंद यादव विश्वविद्यालय,

दुर्ग (छ.ग.)

विषय- स्नातक स्तर के पाठ्यक्रम विषयक।

संदर्भ- संयुक्त संचालक, उच्च शिक्षा विभाग के पत्र क्र. 2456/315/आउशि/सम/2019, दिनांक 16.05.2019।

—00—

विषयांतर्गत लेख है कि संदर्भित पत्र के माध्यम से प्राप्त स्नातक स्तर के निम्नलिखित कक्षा/विषय के परिवर्तित/संशोधित पाठ्यक्रम शिक्षा सत्र 2019-20 से स्नातक के तीनों वर्ष के लिए लागू किया जाता है।

1. बी.बी.एम. — आधार पाठ्यक्रम-हिन्दी भाषा एवं वाणिज्य।

अतः आपसे अनुरोध है कि माध्यम परिवर्तन/संशोधन से महाविद्यालय के शिक्षकों एवं छात्र-छात्राओं को अवगत कराने का फल्ट करेंगे।

टीप :- परिवर्तित/संशोधित पाठ्यक्रम विश्वविद्यालय की वेबसाइट पर उपलब्ध है।

संलग्न : उपरोक्तानुसार

कुलसचिव

क्र. 1459 /अका./2019

दुर्ग, दिनांक 04/07/2019

प्रतिलिपि-

1. संयुक्त संचालक, उच्च शिक्षा विभाग के पत्र क्र. 2456/315/आउशि/सम/2019, दिनांक 16.05.2019 के परिप्रेष्य में सूचनार्थ।
2. कुलपति को निज सहायक एवं कुलसचिव के निज सहायक, हेमचंद यादव विश्वविद्यालय, दुर्ग।
3. उपकुलसचिव, परीक्षा विभाग एवं उपकुलसचिव, गोपनीय विभाग हेमचंद यादव विश्वविद्यालय, दुर्ग।

सहा. कुलसचिव (अका.)

B. Com. - II

INDEX

1. Revised Ordinance No.-23
2. Scheme of Examination
3. Hindi Language
4. English Language
5. G-I
 1. Corporate Accounting
 2. Company Law
6. G-II
 1. Cost Accounting
 2. Principle of Business Management
7. G-III
 1. Business Statistics
 2. Fundamental of Entrepreneurship
8. Computer Application

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REVISED ORDINANCE NO.-23

(As per State U.G.C. Scheme)

BACHELOR OF COMMERCE

1. The three year course has been broken up into three Parts.
Part-I known as B. Com. Part-I Examination at the end of first year. Part-II Examination at the end of the second year, and,
Part-III Examination at the end of the third year.
2. A candidate who after passing (10+2) Higher Secondary or Intermediate examination of Chhattisgarh Board of Secondary Education, Raipur or any other examination recognized by the University or Chhattisgarh Board of Secondary Education as equivalent there to has attended a regular course of study in an affiliated college or in the Teaching Department of the University for one academic year, shall be eligible for appearing at the B.Com. Part-I examination.
3. A candidate who after passing B.Com. Part-I examination of the University or any other examination recognized by the University as equivalent thereto has attended a regular course of study for one academic year in an affiliated College or in the Teaching Department of the University, shall be eligible for appearing at the B.Com. Part-II Examination.
4. A candidate who after passing B.Com. Part-II examination of the University has completed a regular course of study for one academic year in an affiliated College or in the Teaching Department of the University, shall be eligible for appearing at the B.Com. Part-III examination.
5. Besides regular students, subject to their compliance with this ordinance, ex-students and non-collegiate students shall be eligible for admission to the examination as per provision of Ordinance No. 6 relating to examinations (General).
6. Provided that non-collegiate candidates shall be permitted to offer only such subject/ papers as are taught to the regular students at any of the University Teaching Department or College.
7. Every candidate for B.Com. Examination shall be examined in subjects as mentioned in the marking scheme and course of studies.
8. A candidate who has passed the B.Com. Part-III examination of the University shall be



allowed to present him of examination in any of the additional subjects prescribed for the B.Com. Examination and not taken by him at the degree examination. Such candidate will have to first appear and pass the B. Com. Part-I examination in the subject which he proposes to offer then the B.Com. Part-II and Part-III examination in the same subject. Successful candidates will be given a certificate to that effect.

9. In order to pass at any part of the three year degree course examination, an examinee must obtain not less than 33% of the total marks in each paper/group of subjects. In group where both theory and practical examinations are provided an examinee must pass in both theory and practical parts of examination separately.
10. Candidate will have to pass separately at the Part-I, Part-II and Part-III examination. No division shall be assigned on the result of the Part-I and Part-II examinations. In determining the division of the Final examination, total marks obtained by the examinees in their Part-I, Part-II and Part-III examination in the aggregate shall be taken into account. Candidate will not be allowed to change subjects after passing Part-I examination.
11. Provided in case of candidate who has passed the examination through the supplementary examination having failed in one subject/group only, the total aggregate mark being carried over for determining the division, shall include actual marks obtained in the subject/group in which he appeared at the supplementary examination.
12. Successful examinees at the Part - III examination obtaining 60% or more marks shall be placed in the First Division, those obtaining less than 60% but not less than 45% marks in the Second Division and other successful examinees in the Third Division.

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Hemchand Yadav Vishwavidyalaya, Durg (C.G.)
SYLLABUS
B.COM. PART-II
GROUPING OF SUBJECTS AND SCHEME OF EXAMINATION

Subject		Max.	Min.
A. Foundation Course			
I. Hindi Language		75	26
II. English Language		75	26
B. Three Compulsory Groups			
Group-I			
I. Corporate Accounting	75	150	50
II. Company Law	75		
Group-II			
I. Cost Accounting	75	150	50
II. Principles of Bus. Management	75		
Group-III			
I. Business Statistics	75	150	50
II. Fundamental of Entrepreneurship	75		

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संशोधित पाठ्यक्रम
बी.ए./बी.एस-सी./बी.कॉम./बी.एच.एस.-सी.
भाग - दो, आधार पाठ्यक्रम
प्रश्न पत्र - प्रथम (हिन्दी भाषा) (पैपर कोड - 0171)

पूर्णांक- 75

खण्ड - क निम्नलिखित 5 लेखकों के पाठ शामिल होंगे - अंक-35

- | | | |
|------------------------|---|--------------------------|
| 1. महात्मा गांधी | - | चोरी और प्रायश्चित |
| 2. आचार्य नरेंद्र देव | - | युवकों का समाज में स्थान |
| 3. वासुदेव शरण अग्रवाल | - | मातृभूमि |
| 4. हरि ठाकुर | - | डॉ. खूबचंद बघेल |
| 5. पं. माधवराय सप्रे | - | सम्भाषण-कुशलता |

खण्ड-ख हिन्दी भाषा और उसके विविध रूप अंक-16

1. कार्यालयीन भाषा
2. मीडिया की भाषा
3. वित्त एवं वाणिज्य की भाषा
4. मशीनी भाषा

खण्ड-ग हिन्दी की व्याकरणिक कोटियाँ अंक-24

संज्ञा, सर्वनाम, विशेषण, क्रिया विशेषण,
समास, संधि एवं संक्षिप्तियाँ
अनुवाद व्यवहार : अंग्रेजी से हिन्दी में अनुवाद

इकाई विभाजन-

- इकाई- 1 चोरी और प्रायश्चित : महात्मा गांधी / कार्यालयीन भाषा, मीडिया की भाषा
- इकाई- 2 युवकों का समाज में स्थान : आचार्य नरेंद्र देव / वित्त एवं वाणिज्य की भाषा, मशीनी भाषा
- इकाई- 3 मातृभूमि: वासुदेवशरण अग्रवाल / संज्ञा सर्वनाम, विशेषण, क्रिया विशेषण
- इकाई- 4 डॉ. खूबचंद बघेल : हरि ठाकुर/समास, संधि,
- इकाई- 5 सम्भाषण-कुशलता : पं. माधवराय सप्रे, / अनुवाद - अंग्रेजी से हिन्दी में अनुवाद, संक्षिप्तियाँ

मूल्यांकन योजना -

प्रत्येक इकाई से एक-एक प्रश्न पूछे जाएंगे। प्रत्येक प्रश्न में आंतरिक विकल्प होगा। प्रत्येक प्रश्न के 15 अंक होंगे। प्रत्येक इकाई को दो-दो खण्डों (क्रमशः 'क' और 'ख' में) विभक्त करते हुए निर्धारित पाठ से 8 एवं शेष पाठ्य सामग्री से 7 अंक के प्रश्न होंगे। इस प्रकार पूरे प्रश्न-पत्र के पूर्णांक 75 होंगे।

पाठ्यक्रम संशोधन का औचित्य : विद्यार्थी चर्चित एवं सुप्रसिद्ध व्यक्तियों के लेख के माध्यम से समाज एवं राष्ट्रहित के साथ-साथ व्यक्तित्व विकास विषयक मुद्दों से परिचित हो सके तथा व्याकरणिक एवं भाषा विषयक प्रस्तावित पाठ्यक्रम के माध्यम से हिन्दी भाषा संबंधित प्रयोग पक्ष से परिचित होते हुए प्रतियोगी परीक्षाओं की दृष्टि से ज्ञानार्जन कर सकें।

ENGLISH LANGUAGE (Paper Code-1132)

B.A. / B.Sc. /B.COM. /B.H. Sc. - II

M.M.75

The question paper for B.A. /B.Sc./B.Com./B.H.Sc., English Language and cultural values shall comprise the following units:

UNIT-I	Short answer questions to be passed by (Five short answer questions of three marks each)	15 Marks
UNIT-II	(a) Reading comprehension of an unseen passage b) Vocabulary	05 Marks
UNIT-III	Report-Writing	10 Marks
UNIT-IV	Expansion of an idea	10 Marks
UNIT-V	Grammar and Vocabulary based on the prescribed text book.	20+15Marks

Note: Question on all the units shall asked from the prescribed text which will Comprise Specimens of popular creative/writing and the following it any

- a. Matter & technology
 - i. State of matter and its structure
 - ii. Technology (Electronics Communication, Space Science)
- b. Our Scientists & Institutions
 - i. Life & work of our eminent scientist Arya Bhatt. Kaurd Charak Shusruta, Nagarjuna, J.C. Bose and C.V. Raman, S. Rmanujam, Homi J. Babha Birbal Sahani.
 - ii. Indian Scientific Institutions (Ancient & Modern)

Books Prescribed:

Foundation English for U.G. Second Year - Published by M.P. Hindi Granth Academy, Bhopal.



B.Com. II year
COMPULSORY
Group - I PAPER - I (CORPORATE ACCOUNTING)
(As per company act 2013)
Proposed Syllabus


OBJECTIVE

This course enable the students to develop awareness about corporate accounting in conformity with the provisions of companies Act.

- UNIT-I** Issue, Forfeiture, and Re-issue of Shares : Redemption of preference shares; Issue and redemption of debentures.
- UNIT-II** Final Accounts (as per company act 2013)
Liquidation of Company.
- UNIT-III** Valuation of Goodwill and Shares.
- UNIT-IV** Accounting for Amalgamation of Companies as per Indian Accounting Standard 14; Accounting for internal reconstruction - excluding intercompany holdings and re-construction schemes.
- UNIT-V** Consolidated Balance Sheet of holding companies with one subsidiary only.

SUGGESTED READINGS :

1. Dr. S.M. Shukla, Sahitya Bhawan Agra.
2. Dr. Mangal Mehta & Agrawal Published - Indore.
3. Dr. Karim Khanuja - Published - Agra.
4. Gupta R.L., Radhaswamy M; Company Accounts; Sultan Chand & Sons, New Delhi.


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Group - I - PAPER - II

COMPANY LAW

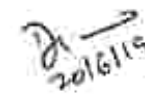
Proposed Syllabus

OBJECTIVE


This objective of this course is to provide basic knowledge of the provisions Companies Act, 2013, along with relevant case law.

- UNIT-I** Corporate personalities; Kinds of Companies, Nature & Scope, promotion on and incorporation of companies.
- UNIT-II** Memorandum of Association; Articles of Association; Prospectus, Shares; share capital - transfer and transmission.
- UNIT-III** Capital management - borrowing powers, mortgages and charges, debentures.
Directors - Managing Director, whole time director, Appointment, Remuneration, and duties.
- UNIT-IV** Company meetings - kinds, Notice, quorum, voting, proxy, resolutions, minutes.
- UNIT-V** Majority powers and minority rights; Prevention of oppression and mismanagement. Winding up - kinds and conduct.


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SUGGESTED READINGS :

1. Singh Avtar : Company Law; Eastern Book Co., Lucknow.
2. Dr. S.M. Shukla, Shahitya Bhawan Agra.
3. Dr. R.C. Agrawal, Shahitya Bhawan Agra.
4. Kapoor N.D. : Company Law - Incorporating the Provisions of the companies Amendment Act, 2013 Chand & Sons, New Delhi


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Group - II PAPER - I


(COST ACCOUNT)


Proposed Syllabus

OBJECTIVE


This course exposes the students to the basic concepts and the tools used in cost accounting.

- UNIT-I** Introduction : Nature and scope of cost accounting ; Cost concepts and classification; Methods and techniques; Installation of costing system; Concept of cost audit. Accounting for Material : Material Control; Concept and techniques; Pricing of material issues; Treatment of material losses.
- UNIT-II** Accounting for Labour : Labour cost control procedure; Labour turnover; Idle time and overtime; Methods of wage payment - time and piece rates; Incentive schemes. Accounting for overheads; Classification and departmentalization; Absorption of overheads; Determination of overhead rates; Under and over absorption, and its treatment.
- UNIT-III** Cost Ascertainment : Unit costing; Job, batch and contract costing.
- UNIT-IV** Operating costing; Process Costing - excluding inter - process profits; and joint and by - products.
- UNIT-V** Cost Records : Intergal and non - integral system; Reconciliation of cost and financial accounts; Break Even Point.


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SUGGESTED READINGS :

1. M.L. Agrawal : Sahitya Bhawan Agra.
2. Maheshwari S.N. : Advanced Problems and Solutions in Cost Accounting; Sultan Chand, New Delhi.
3. Arora M.N. : Cost Accounting - Principles and Practice; Vikas, New Delhi.
4. Jain S.P. and Narang K.L. : Cost Accounting; Kalyani New Delhi.


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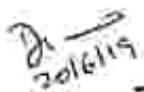
Group - II - PAPER - II
PRINCIPLES OF BUSINESS MANAGEMENT
Proposed Syllabus

OBJECTIVE

This Course familiarizes the students with the basics basics of principles of management.

- UNIT-I** Introduction : Concept, nature, process, and significance of management; management roles (Mintzberg); An overview of functional areas of management; Development management thought; Classical and neo-classical systems; Concept approaches.
- UNIT-II** Planning : Concept, process and types.
Decision making - concept and Bounded rationality; Management by objectives; Corporate planning; Environment analysis and diagnosis; Strategy formulation.
- UNIT-III** Organizing : Concept, nature, process and significance; Authority and resident relationships; Centralization and decentralization; Departmentation; Organization structure - forms and contingency factors.
- UNIT-IV** Motivating and Leading People at work : Motivation - concept; Theories Herzberg, McGregor, and Ouchi; Financial and non- financial incentives.
Leadership - concept and leadership styles; Leadership theories (Tannenb Schmidt.); Likert's System Management;
Communication - nature, process, networks, and barriers, Effective Communication.
- UNIT-V** Managerial Control : Concept and process; Effective control system; Technical control - traditional and modern. Management of Change : Concept, nature, and process of planned Resistance to change; Emerging horizons of management in a environment.


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SUGGESTED READINGS :

1. Dr. R.C. Agrawal, Agra.
2. Dr. S.C. Saxena, Agra.
3. Wehrich and Koontz, et al : Essentials of Management; Tata McGraw Hill, New Delhi.


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Group - III - PAPER - I
BUSINESS STATISTICS


Proposed Syllabus

OBJECTIVE


It enable the students to gain understanding of statistical techniques as are applicable to business.

- UNIT-I** Introduction : Statistics as a subject; Descriptive Statistics - compared to Inferential Statistics; Types of data; Summation operation; Rules of Sigma E operations, Analysis of University Data; Construction of a frequency distribution; Concept of central tendency.
- UNIT-II** Dispersion - and their measures; Partition values; Skewness and measures;
- UNIT-III** Analysis of Bivariate Data : Linear regression two variables and correlation.
- UNIT-IV** Index Number; Meaning, types, and uses; Methods of Constructing price and quantity indices (simple and aggregate); Tests of adequacy; Chain - base index numbers; Base shifting, splicing and deflating; Problems in constructing index numbers; Consumer price index. Analysis of Time Series : Cause of Variation in time series data; Components of a time series; Decomposition - Additive and Multiplicative models; Determination of trend - Moving Averages Method and method of least squares (including linear, second degree, parabolic, and exponential trend); Computation of seasonal indices by simple averages, ratio - to - trend, ratio - to - moving average, and link relative methods.
- UNIT-V** Forecasting and Methods : Forecasting - concept, types and importance; General approach to forecasting; Methods of forecasting; demand; Industry Vs Company sales forecast; Factors affecting company sales. Theory of Probability : as a concept; The three approaches to defining probability; Addition and multiplication laws of probability; Conditional Probability; Bayes' Theorem; Expectation and Variance of a random variable.


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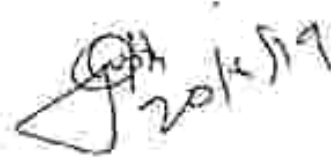
SUGGESTED READINGS :

1. S.M.Shukla, Shahitya Bhawan, Agara.
2. Statistical Analysis, Dr. Rajesh Shukla and J.B. Agrawal


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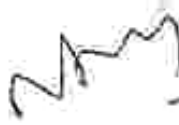
Group - III PAPER - II
FUNDAMENTALS OF ENTREPRENEURSHIP


Proposed Syllabus

OBJECTIVE


It Provides exposure to the students to the entrepreneurial culture and industrial growth so as to preparing them to set up and manage their own small units.

- UNIT-I** Introduction : The entrepreneur; Definition; Emergence of entrepreneurial class; Theories of entrepreneurship; Role of socio - economic environment; Characteristics.
- UNIT-II** Promotion of a Venture; Opportunities analysis; External environmental analysis economic, social and technological; Competitive factors; Legal requirements for establishment of a new unit, and raising of funds; Venture capital sources and documentation required.
- UNIT-III** Entrepreneurial Behavior : Innovation and entrepreneur; Entrepreneurial behavior and Psycho - Theories, Social responsibility.
- UNIT-IV** Entrepreneurial Development Programs (EDP) : EDP, their role, relevance, and achievements; Role of Government in organizing EDPs; Critical evaluation.
- UNIT-V** Role of Entrepreneur : Role of an entrepreneur in economic growth as an innovator, generation of employment opportunities, complementing and supplementing economic growth, bringing about social stability and balanced regional development of industries; Role in export promotion and import substitution, forex earnings, and augmenting and meeting local demand.


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SUGGESTED READINGS :

1. Srivastava S.B. : A Practical Guide to Industrial Entrepreneurs; Sultan Chand and Sons, New Delhi.
2. Tandon B.C. : Environment and Entrepreneur; Chugh Publications, Allahabad.
3. Prasanna Chandra : Project Preparation, Appraisal, Implementation; Tata McGrow Hill, New Delhi.


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हेमचंद्र यादव विश्वविद्यालय, दुर्ग (छ.ग.)

(पूर्व नाम- दुर्ग विश्वविद्यालय, दुर्ग)

रायपुर नाका दुर्ग (छ.ग.)-491001

ई मेल : academic@durguniversity.ac.in

वेब साइट : www.durguniversity.ac.in

दूरभाष : 0788-3359400



क्र. 3861 / अका. / 2021

दुर्ग, दिनांक 30/7/21

प्रति,

प्राचार्य,

समस्त संबद्ध महाविद्यालय,

हेमचंद्र यादव विश्वविद्यालय,

दुर्ग (छ.ग.)

विषय- स्नातक स्तर भाग-तीन के पाठ्यक्रम विषयक।

संदर्भ- संयुक्त संचालक, उच्च शिक्षा विभाग के पत्र क्र. 2456/315/आउशि/सम/2019, दिनांक 16.05.2019।

—00—

विषयांतर्गत लेख है कि संदर्भित पत्र के माध्यम से प्राप्त स्नातक स्तर भाग-तीन के निम्नलिखित कक्षा/विषयों के परिवर्तित/संशोधित पाठ्यक्रम शिक्षा सत्र 2021-22 से लागू किये जाते हैं:-

1. बी.ए. - आचार पाठ्यक्रम - हिन्दी भाषा, हिन्दी साहित्य, राजनीतिशास्त्र, अर्थशास्त्र, नृत्य, दर्शनशास्त्र, समाजशास्त्र, इतिहास, मानवविज्ञान, संस्कृत, सांख्यिकी प्राचीन भारतीय इतिहास, भूगोल, मनोविज्ञान।
2. बी.एस.-सी. - आचार पाठ्यक्रम-हिन्दी भाषा, जीव विज्ञान, मानवविज्ञान, बायोटेक्नोलॉजी, कम्प्यूटर साईंस, गणित, भौतिक शास्त्र, प्राणीशास्त्र, सूक्ष्मजीव विज्ञान, वनस्पतिशास्त्र, भूविज्ञान, इलेक्ट्रॉनिक्स, रसायन शास्त्र, सांख्यिकी, भूगोल।
3. बी.ए./बी.एस.सी. - आचार पाठ्यक्रम - हिन्दी भाषा एवं गृह विज्ञान।
(गृह विज्ञान)
4. बी.सी.ए. - भाग-3
5. बी.कॉम. - भाग-1, भाग-2 एवं भाग-3 का परिवर्तित पाठ्यक्रम सत्र 2019-20 में जारी कर लागू किया जा चुका है।

कृ.प.उ.

उपरोक्त विषयों को शिक्षा सत्र 2021-22 से संशोधित रूप में स्नातक स्तर भाग-तीन के लिए लागू किया जाता है स्नातक स्तर भाग-एक हेतु सत्र 2019-20 एवं स्नातक स्तर भाग-दो हेतु सत्र 2020-21 में लागू पाठ्यक्रम मान्य होंगे।

टीप:- परिवर्तित/संशोधित पाठ्यक्रम विश्वविद्यालय की वेबसाईट पर उपलब्ध है।


कुलसचिव

क्र. 3862 /अका./2021

दुर्ग, दिनांक 20/4/21

प्रतिलिपि:-

1. संयुक्त संचालक, उच्च शिक्षा विभाग के पत्र क्र. 2456/315/आउशि/सम/2019, दिनांक 16.05.2019 के परिपेक्ष्य में सूचनाार्थ।
2. उपकुलसचिव, परीक्षा विभाग एवं उपकुलसचिव, नोपनीय विभाग हेमचंद्र यादव विश्वविद्यालय, दुर्ग।
3. वेबसाईट प्रभारी, वेबसाईट पर पाठ्यक्रम प्रकाशित करने हेतु।
4. कुलपति के निज सहायक एवं कुलसचिव के निज सहायक, हेमचंद्र यादव विश्वविद्यालय, दुर्ग।


सहा. कुलसचिव (अका.)

बी.ए./बी.एस-सी/बी.ओए/बी.एच.एस-सी.
भाग - तीन आचार पाठ्यक्रम
प्रश्न पत्र - प्रथम (हिन्दी भाषा)

पूर्णांक- 75

- इकाई-एक (क) भारत माता : सुभित्रानंदन पंत
(ख) कथन की शैलियाँ
1. विवरणात्मक शैली 2. मूल्यांकन शैली
3. व्याख्यात्मक शैली 4. विद्यारात्मक शैली
- इकाई-दो (क) सूखी काली : उपेन्द्रनाथ अश्क
(ख) विभिन्न संरचनाएँ
1. विनमता सूचक संरचना 2. विधि सूचक संरचना
3. निषेध परक संरचना 4. काल-बोधक संरचना
5. स्थान-बोधक संरचना 6. दिशा बोधक संरचना
7. कार्य-कारण सम्बन्ध संरचना 8. अनुक्रम संरचना
- इकाई-तीन (क) वशीमत : मालती जोशी
(ख) कार्यालयीन पत्र और अन्वेष
1. परिपत्र 2. आदेश
3. अधिसूचना 4. ज्ञापन
5. अनुस्मारक 6. पृच्छाकर्त
- इकाई-चार (क) योग की शक्ति : हस्तिदेश राम ब्रह्मचर
(ख) अनुवाद : स्वस्थ एवं परिमाण उपदेश्य
स्त्रीत भाषा और लक्ष्य भाषा
अच्छे अनुवाद की विशेषताएँ
अनुवाद प्रक्रिया, अनुवादक

- इकाई-पांच (क) संस्कृति और राष्ट्रीय एकीकरण : योगेश अटल
(ख) घटनाओं, समारोहों आदि का प्रतिवेदन, विभिन्न प्रकार के निबंधन पत्र

मूल्यांकन योजना : प्रत्येक इकाई से एक-एक प्रश्न पूछा जाएगा। प्रत्येक प्रश्न में आंतरित विकल्प होगा। प्रत्येक प्रश्न के 15 अंक होंगे। इसलिए प्रत्येक प्रश्न के दो भाग 'क' और 'ख' होंगे एवं अंक क्रमशः 8 एवं 7 अंक होंगे। प्रश्नपत्र का पूर्णांक 75 निर्धारित है।

5/7/2024

Dr. Anshu Singh



Anshu Singh

Foundation Course-III

English Language

B.A./B.Sc./B.Com./B.H.Sc./III

M.M. 75

The question paper for B.A./B.Sc./B.Com./B.H.Sc. III Foundation course, English Language and General Answers shall comprise the following items :

Five question to be attempted, each carrying 3 marks.

UNIT-I	Essay type answer in about 200 words. 5 essay type question to be asked three to be attempted.	15
UNIT-II	Essay writing	10
UNIT-III	Precise writing	10
UNIT-IV (a)	Reading comprehension of an unseen passage	05
(b)	Vocabulary based on text	10
UNIT-V	Grammar Advanced Exercises	25

Note: Question on unit I and IV (b) shall be asked from the prescribed text. Which will comprise of popular create writing and the following items. Minimum needs housing and transport Geo-economic profile of M.P, communication Educate and culture. Women and Worm in Empowerment Development, management of change, physical quality of life. War and human survival, the question of human social value survival, the question of human social value, new Economic Philosophy Recent Diberaliation Method) Demoration decentralization (with reference to 73, 74 constitutional Amendrricnt.

Books Prescribed:

Aspects of English Language and Development - Published by M.P. Hindi Granth Academy, Bhopal.

Hemchand Yadav Vishwavidyalaya, Durg (C.G.)

SYLLABUS


B.COM. PART-III

GROUPING OF SUBJECTS AND SCHEME OF EXAMINATION

Subject		Max.	Min.
Foundation Course			
I. Hindi Language		75	26
II. English Language		75	26
Compulsory Groups			
Group-I			
I. Income Tax	75	150	50
II. Auditing	75		
Group-II			
I. Indirect Taxes with GST	75	150	50
II. Management Accounting	75		
Group-III Optional			
Option Group A (Finance Area)			
I. Financial Management	75	150	50
II. Financial Market Operations	75		
Option Group B (Marketing Area)			
I. Principles of Marketing	75	150	50
II. International Marketing	75		
Option Group C (Commercial Area)			
I. Information Technology and its Applications in Business	75	150	50
II. Essential of e-Commerce	75		
Option Group D (Money Banking & Insurance Area)			
I. Fundamental of Insurance	75	150	50
II. Money & Banking System	75		


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B.COM PART III
COMPULSORY CORE COURSE
TITLE OF PAPER - Group-I
PAPER - I - INCOME TAX

OBJECTIVE

It enables the students to know the basics of Income Tax Act and its implications.

M.M. 75

- UNIT- I** Basic Concepts: Income, agricultural Income, casual Income, assessment year, previous year, gross total Income, total Income, person.
Basis of charge: Scope of total Income, residence and tax liability, income which does not form part of total Income.
- UNIT- II** Heads of Income: Salaries; Income from house property.
- UNIT- III** Profit and gains of business or profession, including provisions relating to specific business; Capital gains, Income from other sources.
- UNIT-IV** Computation of Tax Liability: Set-off and carry forward of losses; Deduction from gross total income. Aggregation of income; Computation of total income and tax liability of individual and HUF.
- UNIT-V** Tax Management: Tax deduction at source; Advance payment of tax; Assessment procedures; Tax planning for individuals.
Tax evasion, Tax Avoidance and Tax planning. Tax Administration: Authorities, appeals, penalties.
Preparation of return of income
-Manually and on line

Suggested Reading:

1. Singhania V.K.: Students Guide to Income Tax; Taxmann, Delhi.
2. Prasad, Bhagwati: Income Tax Law & Practice; Wily Publication, New Delhi.
3. Mehrotra H.C.: Income Tax Law & Accounts; Sahitya Bhawan, Agra.
4. Girish Ahuja and Ravi Gupta: Systematic approach to income tax: Sahitya Bhawan Publications, New Delhi.
5. Chandra Mahesh and Shukla D.C.: Income Tax Law and Practice; Pragati Publications, New Delhi.
6. R.K. Jain: Income Tax & Law (Hindi & English) Shahitya Bhawan, Publication, Agra.


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B.COM PART III
COMPULSORY CORE COURSE
TITLE OF PAPER - Group-I
PAPER - II- AUDITING

M.M. 75

OBJECTIVE

This course aims at imparting knowledge about the principles and methods of auditing and their applications.


- UNIT-I** Introduction: Meaning and objectives of auditing; Types of audit; Internal audit. Audit Process: Audit programme; Audit note books; Working papers and evidences.
- UNIT-II** Internal Check System; Internal control.
Audit Procedure: Vouching; Verification of assets and liabilities.
- UNIT-III** Audit of Limited Companies:
a. Company auditor - Qualification, Appointment, powers, duties, Resignation and liabilities.
b. Divisible profits and dividend.
c. Auditor's report - standard report and qualified report.
d. Special audit of banking companies.
e. Audit of educational institutions.
f. Audit of Insurance companies.
- UNIT-IV** Investigation: Investigation; Audit of non profit companies,
a. Where fraud is suspected, and
b. When a running a business is proposed.
c. Verifications & Valuation of assets.
- UNIT-V** Recent Trends in Auditing: Nature and significance of cost audit; Tax audit;
Management audit.

Suggested Reading:

1. Gupta KaPal: Contemporary Auditing: Tata Mcgraw Hill, New Delhi.
2. Tandon B.N.: Principles of Auditing: S. Chand & Co., New Delhi.
3. Pagare Dinkar: Principles and Practice of Auditing: Sultan Chand, New Delhi.
4. Sharma T.R.: Auditing Principles and Problems, SahityaBhawan, Agra.
5. Shukla S.M.: Auditing - ShahityaBhavan, Agra, (Hindi)
6. Batliboy: Auditing.


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B.COM PART III
COMPULSORY CORE COURSE
PAPER - II

Group-II -PAPER - I - INDIRECT TAXES WITH GST

OBJECTIVE

This course aims at imparting basic knowledge about GST and apply the provisions of GST law to various situations.

M.M. 75

- UNIT-I** Customs : Role of customs in international trade; Important terms and definitions goods; Duty; Exporter; Foreign going vessel; Aircraft goods; Import; Import Manifest; Importer; Prohibited goods; Shipping bill; Store; Bill of lading; Export manifest; Letter of credit; Kinds of duties - basic, auxiliary, additional or countervailing; Basics of levy ad valorem, specific duties; Prohibition of export and import of goods, and provisions regarding notified & specified goods; Import of goods - Free import and restricted import; Type of import - import of cargo, import of personal baggage, import of stores. Clearance Procedure - For home consumption, for warehousing for re-export; Clearance procedure for import by post; Prohibited exports; Canalised exports; Export against licensing; Type of exports - export of cargo, export of baggage; Export of cargo by land, sea, and air routes.
- UNIT-II** State Excise, CENVAT. Detail study of State Excise during calculation of Tax.
- UNIT-III** INTRODUCTION TO GOODS AND SERVICES TAX (GST) -Objectives and basic scheme of GST, Meaning - Salient features of GST - Subsuming of taxes -Benefits of implementing GST , Structure of GST (Dual Model) - Central GST - State / Union Territory GST - Integrated GST
GST Council: Structures Power and Functions. Provisions fro amendments.
- UNIT-IV** Registration under GST: Procedure for registration, Persons liable for registration, Persons not liable for registration, Compulsory registration. Exempted goods and services - Rates of GST.
Procedure relating to Levy: (CGST & SGST): Scope of supply, Tax liability on Mixed and Composite supply, Time of supply of goods and services, Value of taxable supply.

Eway-Billing


20/11/19


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NIT-V


ASSESSMENT AND RETURNS -

Input tax Credit: Eligibility, Apportionment, Inputs on capital goods,
Distribution of credit by Input Service Distributor (ISD)
Furnishing details of outward supplies and inward supplies, First return,
Annual return and Final return.

Suggested Reading:

1. Deloitte: GST Era Beckons, Wolters Kluwer.
2. Madhukar N Hiregange: Goods and Services Tax, Wolters Kluwer.
3. All About GST: V.S Datey - Taxman's.
4. Guide to GST: CA. Rajat Mohan.
5. Goods & Services Tax - Indian Journey: N.K. Gupta & Sunnania Batia, Barat's Publication
6. Goods & Services Tax - CA. Rajat Mohan,
7. Goods & Services Tax: Dr. Sanjiv Agrawal & CA. Sanjeev Malhotra.
8. GST - Law & Practice: Dr. B.G. Bhaskara, Manjunath. N & Naveen Kumar IM,
9. Understanding GST: Kamal Garg, Barat's Publication.


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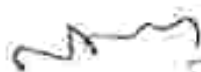
B.COM PART III
COMPULSORY CORE COURSE
TITLE OF PAPER -Group-II
PAPER - II -MANAGEMENT ACCOUNTING


OBJECTIVE


This course provides the students an understanding of the application of accounting techniques for management.

M.M. 75

- UNIT-I** Management Accounting : Meaning, nature, scope, and functions of management Accounting; Role of management accounting in decision making; Management accounting vs financial accounting; Tools and techniques of management accounting; Financial statement; Objectives and methods of financial statements analysis; Ratio analysis; Classification of ratios - Profitability ratios, turnover ratios, liquidity ratios, turnover ratios; Advantages of ratio analysis; Limitations of accounting ratios.
- UNIT-II** Funds Flow Statement as per Indian Accounting Standard 3, cash flow statement.
- UNIT-III** Absorption and Marginal Costing; Marginal and differential costing as a tool for decision making - make or buy; Change of product mix; Pricing, Break-even analysis;
Exploring new markets; Shutdown decisions.
- UNIT-IV** Budgeting for profit Planning and control; Meaning of budget and budgetary control; Objectives; Merits and limitations; Types of budgets; Fixed and flexible budgeting;
Control ratios; Zero base budgeting; Responsibility accounting;
Performance Budgeting.
- UNIT-V** Standard Costing and Variance Analysis: Meaning of standard cost and standard costing; Advantages and application; Variance analysis - material; Labour and overhead (Two-way analysis); Variances.


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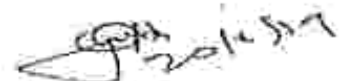

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Suggested Reading:

1. Arora M.N.: Cost Accounting - Principles and Practice, Vikas, New Delhi.
2. Jain S.P. & Narang K.L.: Cost Accounting; Kalyani, New Delhi.
3. Anthony, Rogert & Reece, at al: Principles of Management Accounting; Richard Irwin Inc.
4. Horngren, Charles, Foster and Datar et al: Cost Accounting - A Managerial Emphasis; Prentice Hall, New Delhi.
5. Khan M.Y. and Jain P.K.: Management Accounting; Tata McGraw Hill, New Delhi.
6. Kaplan R.S. and Atkonson A.A.: Advanced Management Accounting; Printice Hall India, New Delhi.
7. J.K. Agrawal & R.K. Agrawal: Jaipur (English & Hindi).
8. Dr. M.R. Agrawal: Minakshi Prakashan Meruth.
9. Dr. S.P. Gupta - Agra (Hindi & English).


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B.COM PART III
OPTIONAL GROUP A (Finance Area)
TITLE OF PAPER - FINANCIAL MANAGEMENT
PAPER - I

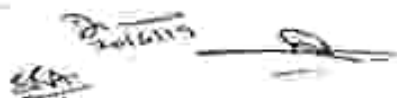
OBJECTIVE

The objective of this course is to help students understand the conceptual framework of financial management.

M.M. 75

- UNIT-I** Financial Management: Financial goals; Profit vs wealth maximization; Financial functions-investment, financing, and dividend decisions; Financial planning.
- UNIT-II** Capital Budgeting : Nature of investment decisions, Investment evaluation criteria, payback period, accounting rate of return, net present value, internal rate of return profitability index; NPV and IRR comparison.
- UNIT-III** Cost of Capital: Significance of cost of capital; Calculating cost of debt; Preference shares, equity capital, and retained earnings; Combined (weighted) cost of capital. Operating and financial Leverage : Their measure; Effects on profit, analyzing alternate financial plans, combined financial and operating leverage.
- UNIT-IV** Capital Structure: Theories and determinates. Dividend Policies: Issues in dividend policies; Walter's model; Gordon's model; M.M.Hypothesis, forms of dividends and stability in dividends, determinants.
- UNIT-V** Management of Working Capital: Nature of working capital, significance of working capital, operating cycle and factors determining of working capital requirements,
Management of working capital - cash, receivables, and inventories.


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Suggested Reading:

1. Van Home J.C. : Financial Management and Policy; Prentice Hall of India, New Delhi.
2. Khan M.Y. and Jain P.K. : Financial Management, Text and Problems; Tata McGraw Hill, New Delhi.
3. Prasanna Chandra L Financial Management Theory and practice; Tata McGraw Hill, New Delhi.
4. Pandey I.M.: Financial Management Vikas Publishing Hous, New Delhi.
5. Brigham E.F. Gapenski L.C., and Ehrhardt M.C.: Financial Management - Theory and Practice; Harcourt College Publishers, Singapore.
6. Bhalla V.K.: Modern Working Capital Management, Anmol Pub. Delhi.


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B.COM PART III
OPTIONAL GROUP A (Finance Area)
TITLE OF PAPER - FINANCIAL MARKET OPERATIONS
PAPER - II

OBJECTIVE

This course aims at acquainting the students with the working of financial markets in India.

M.M: 75

- UNIT-I** Money Market: Indian money market's composition and structure; (a) Acceptance houses, (b) Discount houses and (c) Call money market; Recent trends in Indian money market.
- UNIT-II** Capital Market: Security market - (a) New issue market, (b) Secondary market;
Functions and role of stock exchange; listing procedure and legal requirements; Public issue - pricing and marketing; Stock exchanges - National Stock Exchange, Bombay stock exchange
- UNIT-III** Securities contract and Regulations Act: Main provisions. Investors Protection: Grievances concerning stock exchange dealings and their removal; Grievance cells in stock exchanges; SEBI; Company Law Board; Press;
Remedy through courts.
- UNIT-IV** Functionaries on Stock Exchanges: Brokers, sub brokers, market makers, jobbers, portfolio consultants, institutional investors, and NRIs.
- UNIT-V** Financial Services: Merchant banking - Functions and roles; SEBI guidelines; Credit rating - concept, functions, and types.

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Suggested Reading:

1. Chandler M.V. and Goldfeld S.M.: Economics of money and Banking, Harper and Row, New Delhi.
2. Gupta Suraj B. Monetary Economics; s, chand and Co. New Delhi.
3. Gupta Suraj B. Monetary Planning in India; Oxford, Delhi.
4. Bhole L.M.: Financial Markets and Institutions; Tata McGraw Hill; New Delhi.
5. Hooda R.P.: Indian Securities Market - Investors view point; Excell Books, New Delhi.
6. R.B.I.: Functions and Working.
7. R.B.I.: Report in Currency and Finance.
8. R.B.I.: Report of the Committee to Review the working of the monetary system Chakravarty committee.
9. R.B.I.: Report of the Committee on the Financial System, Narsimham Committee.


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B.COM PART III
OPTIONAL GROUP B (Marketing Area)
TITLE OF PAPER - PRINCIPLES OF MARKETING
PAPER - I

OBJECTIVE

The Objective of this course is to help students to understand the concept of marketing and its applications.

M.M. 75

- UNIT-I** Introduction: Nature and scope of marketing; Importance of marketing as a business function, and in the economy; Marketing concepts - traditional and modern; Selling vs. Marketing; Marketing mix; Marketing environment.
- UNIT-II** Consumer Behaviour and Market Segmentation: Nature, scope, and significance of consumer behaviour; Market segmentation - concept and importance; Bases for market segmentation.
- UNIT-III** Product: Concept of product, consumer, and industrial goods; Product planning and development; Packaging role and functions; Brand name and trade mark; after sales service; Product life cycle concept. Price: Importance of price in the marketing mix; Factors affecting price of a product/service; Discounts and rebates.
- UNIT-IV** Distributions Channels and Physical Distribution; Distribution channels - Concept and role; Types of distribution channels. Factors affecting choice of a distribution channel; Retailer and wholesaler; Physical distribution of goods; Transportation, Warehousing, Inventory control; Order processing.
- UNIT-V** Promotion: Methods of promotion; Optimum promotion mix; Advertising media - the relative merits and limitations; Characteristics of an effective advertisement; Personal selling; Selling as a career; Classification of successful sales person; Functions of sales man.
Recent development in marketing - social marketing, online marketing, direct marketing, Services marketing, Green marketing.


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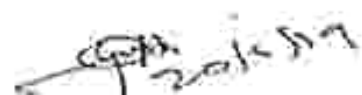

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Suggested Reading:

1. Philip Kotler: Marketing Management Englewood Cliffs; Prentice Hall, N.J.
2. William M. Pride and O.C. Ferrell: Marketing: Houghton - Mifflin Boston.
3. Stanton W.J. Etzel Michael J., and Walker Bruce J. Fundamentals of Marketing; McGrawHill, New York.
4. Lamb Charles W., Hair Joseph F. and McDaniel Carl : Principles of Marketing; South-Western-Publishing, Cincinnati, Ohio.
5. Cravens David W. Hills Gerald E., Woodruff Robert B : Marketing management : Richard D. Irwin, Homewood Illinois.
6. Kotler Philip and Armstrong Gary : Principles of Marketing; Prentice Hall of India, New Delhi.
7. Dr. R.C. Agrawal, Agra.
8. Dr. S.C. Saxena Agra.
9. Dr. S.K. Jain, Hindi GranthAcademi. M.P.
10. Dr. N.C. Jain

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B.COM PART III
OPTIONAL GROUP B (Marketing Area)
TITLE OF PAPER -INTERNATIONAL MARKETING
PAPER - II

OBJECTIVE

This course aims at acquainting student with the operations of marketing in international environment.

M.M. 75

- UNIT-I** International Marketing: Nature, definition, and scope of international marketing; Domestic marketing vs. International marketing; International environment external and internal.
- UNIT-II** Identifying and Selecting Foreign Market: Foreign market entry mode decisions. Product Planning for international Market: Product designing; Standardization vs. adaptation; Branding and packaging; Labeling and quality issues; after sales service. International pricing; Factors influencing International price; Pricing process-process and methods; International price quotation and payment terms.
- UNIT-III** Promotion of Product/Services Abroad: Methods of international promotion; Direct mail and sales literature; Advertising; Personal selling; Trade fairs and exhibitions.
- UNIT-IV** International Distribution: Distribution channels and logistics decisions; Selection and appointment of foreign sales agents.
- UNIT-V** Export Policy and Practices in India: Exim policy - an overview; Trends in India's foreign trade; Steps in starting an export business; Product selection; Market Selection; Export pricing; Export finance; Documentation; Export procedures; Export Assistance and incentives. Marketing Control Process

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Suggested Reading:

1. Bhattacharya R.L. and Varshney B.: International Marketing Management; Sultan Chand, New Delhi.
2. Bhattacharya B. : Export Marketing Strategies for Success; Global Press, New Delhi.
3. Keegan W.J.: Multinational Marketing Management; Prentice Hall, New Delhi.
4. Kriplani V.: International marketing; Prentice Hall New Delhi.
5. Taggart J.H. and Moder Mott. M.C.: The Essence of International Business; Prentice Hall New Delhi.
6. Kotler Phillip: Principles of Marketing; Prentice Hall New Delhi.
7. Fayer Weather John: International Marketing; Prentice Hall N.J.
8. Caterora P.M. and Keavenay S.M.: Marketing an international Perspective; Erwin Homewood, Illinois.
9. Paliwala, Stanely J. The Essence of International marketing; Prentice Hall, NewDelhi.


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B.COM PART III
OPTIONAL GROUP C (Commercial Area)
TITLE OF PAPER - INFORMATION TECHNOLOGY AND ITS
APPLICATIONS IN BUSINESS
PAPER - I

OBJECTIVE

The objective of the course is to familiarize the students with the innovation information technology and how it affects business. An understanding of the group rules of these technologies will enable the students to appreciate the nitty-gritty Commerce.

M.M. 75

- UNIT-I** Information Revolution and information Technology (IT) : Deployment of Business; Basic features of IT; Impact of IT on business environment and social fabric; Invention of writing; Written books; Printing Press and movable type Gutenberg's invention; Radio; telephone, wireless and satellite communication computing and dissemination of information and knowledge and convergence technologies (Internet with Wireless-WAP).
- UNIT-II** Fundamentals of Computer: Data, information and EDP: Data, information and concept of data and information; Levels of information from data; processing; Electronic data processing; Electronic machines;
- a. Number Systems and Codes: Different number systems - binary, octal, decimal, hexagonal, and their conversion codes used in computers; BCD, EBCDIC, ASCII; Gray and conversions.
 - b. Computer Arithmetic and Gates: Binary arithmetic, complements, addition-subtraction; Conversion from one system to another; Logic Gates, truth table and applications minimisation, and K-maps.
 - c. Computer Processing System: Definition of computer; Hardware/Software concepts; Generation of computers; Types of computers; Elements of computer; CPU and its functions, various computer systems.
 - d. I/O devices: Basic concepts of I/O devices; various input devices Keyboard, mouse; MICR, OCR, microphones.
 - e. Various output devices: VDU, printer, plotter, spooling, L.S.
 - f. Storage Devices: Primary and secondary memory; Types of memory capacity and its enhancement; Memory devices and comparisons; Auxiliary storage, tapes, disks (magnetic and optical); various devices and their comparison.

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- g. System Software - Role of Software, Different System Software: O.S., utilization element of O.S. - Its types and variations; DOS and windows.
- h. Computer and Networks: Need of communication; Data transmission; Baud; Bandwidth; Communication Channel; Multiplexing; Basic network concepts; O.S.I. model; Types of topologies; LAN, WAN, Client server concept.

UNIT-III Computer-based Business Applications

- a. Word Processing : Meaning and role of word processing in creating of documents, editing, formatting, and printing documents, using tools such as spelling check, thesaurus, etc. in word processors (MS-Word).
- b. Electronic Spreadsheet : Structure of spreadsheet and its applications to accounting, finance, and marketing functions of business; Creating a dynamic/sensitive worksheet; Concept of absolute and relative cell reference; Using built-in functions; Goal seeking and solver tool; Using graphics and formatting of Worksheet; sharing data with other desktop applications; Strategies of creating error-free worksheet (MS-Excel, Lotus 123). Practical knowledge on Wings Accounting (Software).
- c. Programming under a DBMS environment; The concept of data base management system; Data field, records, and files, Sorting and indexing data; Searching records, designing queries, and reports; Linking of data files; Understanding programming environment in DBMS; Developing menu driven applications in query language (MS-Access).


UNIT-IV Electronic Data Interchange (EDI), Introduction to EDI; Basics of EDI; EDI standards; Financial EDI (FEDI); FEDI for international trade transaction; Applications of EDI; Advantages of EDI; Future of EDI.

UNIT-V The Internet and its Basic Concepts Internet-concept, history development in India; Technological foundation of internet; Distributed computing; Client-server computing; Internet protocol suite; Application of distributed computing; Client-server computing; Internet protocol suite in the internet environment; Domain Name System (DNS); Domain Name Service (DNS); Generic top-level domain (gTLD); Country code top-level domain (ccTLD); - India; Location of second-level domains; IP addresses; Internet protocol; Applications of Internet in business, education, governance, etc. Information System Audit Basic idea of information audit; Difference with the traditional concepts of audit; Conduct and applications of IS audit in internet environment.

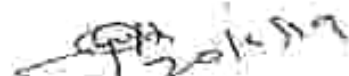
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Suggested Reading:

1. Agrawala Kamlesh N. and Agarwala Deeksha: Business on the Net - Introduction to Ecommerce, Macmillan India, New Delhi.
2. Agarwala Kamlesh, N. and Agarwala Deeksha: Bulls, Bears and The mouse; and introduction to On-line Service Market Trading; Macmillan India, New Delhi.
2. Agarwala Kamlesh, N. and Agarwala Prateek Amar; WAP the Net; an Introduction on Wireless Application Protocol; Macmillan India, New Delhi.
3. Bajaj Kamlesh K. and Nag Debjani: E-Commerce; The cutting Edge of Business; Tata McGraw Hill, New Delhi.
4. Edwards, Ward and Bytheway : The Essence of Information Systems; Prentice Hall, New Delhi.
5. Garg & Srinivasan: Work Book on Systems Analysis & Design; Prentice Hall New Delhi.
7. Kanter: Managing with Information; Prentice Hall New Delhi.
8. Minoli Daniel, Minoli Emma: Web Commerce Technology Handbook; Tata McGraw Hill, New Delhi.
9. Minoli Daniel: Internet & Internet Engineering; Tata McGraw Hill, New Delhi.
10. Yeats: Systems Analysis & Design; Macmillan India, New Delhi.
11. Goyal: Management information System; Macmillan India, New Delhi.
12. Timothy J O'Leary: Microsoft Office 2000; Tata McGraw Hill, New Delhi.


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B.COM PART III
OPTIONAL GROUP C (E-Commerce Area)
TITLE OF PAPER - ESSENTIAL OF E-COMMERCE
PAPER - II

OBJECTIVE

The objective of this course is to familiarize the students with the basics of e-commerce and to comprehend its potential.

M.M. 75

- UNIT-I** Internet and Commerce; Business operations; E-Commerce practices; Concepts b2b, b2c, b2g, g2b; Benefits of e-commerce to organization, consumers, and society; Limitation of e-commerce; Management issues relating to e-commerce.
Operations of E-Commerce: Credit card transaction; Secure Hypertext Transfer Protocol (SHTTP); Electronic payment systems; secure electronic transaction (SET); Set's encryption; Process; Cybercash; Smart cards; Indian payment models.
- UNIT-II** Applications in B2C: Consumer's shopping procedure on the internet; Impact on disintermediation and re-intermediation; Global market; Strategy of traditional department stores; Products in b2c model; Success factors of e-brokers; Broker based services on-line; Online travel tourism services; Benefits and impact of e-commerce on travel industry; Real estate market; Online stock trading and its benefits; Online banking and its benefits; Online financial services and their future; Educations benefits, implementation, and impact.
- UNIT-III** Applications in B2B; Applications of b2b, Key technologies for b2b; Architectural models of b2b; Characteristics of the supplier-oriented marketplace, buyer-oriented market place, and intermediary-oriented marketplace; Benefits of b2b on procurement re-engineering; Just in Time delivery in b2b; Internet-based EDI from traditional EDI; Integrating EC with back-end information systems; Marketing issues in b2b.
- UNIT-IV** Applications in Governance: EDI in governance; E-government; E-governance applications of the internet; Concept of government to business, business to government and citizen-to-government; E-governance models; Private sector interface in e-governance.

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UNIT-V

Emerging Business Models: Retail model; Media model; Advisory model, Mode-to-order manufacturing model; Do-it yourself model; Information service model; Emerging hybrid models; Emerging models in India. Security and Legal aspects of E-commerce.

Suggested Reading:

1. Agarwala Kamlesh. N. and Agarwala Deeksha: Bridge to Online Storefront; Macmillan India, New Delhi.
2. Agarwala Kamlesh, N. and Agarwala Deeksha: Business on the Net Introduction to the E-commerce; Macmillan India New Delhi.
3. Agarwala Kamlesh N. and Agarwala Deeksha: Bulls, Bears and The Mouse: An Introduction to Online Stock Market Trading; Macmillan India New Delhi.
4. Tiwari Dr. Murlidhar D.: Education and E-Governance; Macmillan India, New Delhi.
5. Minoli Daniel, Minoli Emma: Web Commerce Technology Handbook; Tata McGraw Hill, New Delhi.
6. Minoli Daniel, Internet & Internet Engineering; Tata McGraw Hill, 1999.
7. Bhatnagar Subhash and Schwabe Robert (Eds): Information and Communication Technology in Development; Sage Publications India, New Delhi.
7. Amor, Daniel: E-business Reevaluation, The : Living and Working in an Interconnected World; Prentice Hall, U.S.
8. Afuah, A., and Tucco, C.: Internet business models and Strategies; McGraw Hill, New York.

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B.COM PART III

OPTIONAL GROUP D (Money Banking & Insurance Area)

TITLE OF PAPER FUNDAMENTAL OF INSURANCE

PAPER - I

OBJECTIVE

This course enables the students to know the fundamentals of insurance.

M.M. 75

- UNIT-I** Introduction to Insurance: Purpose and need of insurance; Insurance as a social security tool; Insurance and economic development.
- UNIT-II** Fundamentals of Agency Law: Definition of an agent; Agents regulations; Insurance intermediaries; Agents compensation.
- UNIT-III** Procedure for Becoming an Agent : Prerequisite for obtaining a license; Duration of license; Cancellation of incense; Revocation or suspension/termination of agent appointment; Code of conduct; Unfair practices. Functions of the Agent: Proposal form and other forms for grant of cover; Financial and medical underwriting; Material information; Nomination and assignment; Procedure regarding settlement of policy claims.
- UNIT-IV** Company Profile : organizational set-up of the company; Promotion strategy; Market share; Important activities; Structure; Product; Actuarial profession; Product pricing actuarial aspects; Distribution channels.
- UNIT-V** Fundamentals/Principles of Life insurance/ Marine /Fire /Medical/General Insurance; Contracts of various kinds; Insurable Interest. Online insurance procedure

Suggested Reading:

1. Mishra M.N.: Insurance Principle and Practice; S. Chand and Co., New Delhi.
2. Insurance Regulatory Development Act. 1999.
3. Life Insurance Corporation Act. 1956.
4. Gupta OS: Life Insurance; Frank brothers, New Delhi.
5. Vinayakam N., Radhaswamy and Vasudevan SV: Insurance - Principles and Practice, S. Chand and Co. New Delhi.
6. Mishra MN: Life Insurance Corporation of India, Vols 1, II & III; Raj Books, Jaipur.
7. BalchandShriwastava, Agra.
8. Dr. M.L. Singhai, RAmesh Book Depot, Jaipur.


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B.COM PART III
OPTIONAL GROUP D (Money Banking & Insurance Area)
TITLE OF PAPER - MONEY & BANKING SYSTEM
PAPER -II

OBJECTIVE

This course enables the students to know the working of the Indian Money & banking system.

M.M. 75

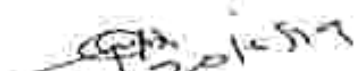
- UNIT-I** Money: Function, Alternative Measures to money supply in India - their different components. Meaning and changing relative importance of each.
- UNIT-II** Indian Banking System : Structure and organization of banks; Reserve Bank of India; Apex banking Institutions; Commercial banks; Regional rural banks; Cooperative banks; Development banks.
- UNIT-III** Banking Regulation Act, 1947 : History; Social control; Banking Regulation Act as applicable to banking companies and public sector banks; Banking Regulation Act as applicable to Cooperative banks.
- UNIT-IV** Regional Rural and Cooperative Banks in India: Functions; Role of regional rural and cooperative banks in rural India; Progress and performance.
- UNIT-V** Reserve Bank of India: Objectives; Organization; Functions and working; Monetary policy; Credit control measures and their effectiveness.
State Bank of India, Project History, Objectives, Functions & Organization working & progress.
Internet banking system

Suggested Reading:

1. Basu A.K.: Fundamentals of Banking-Theory and Practice; a Mukherjee and Co., Calcutta.
2. Sayers R.S.: Modern Banking: Oxford University Press.
3. Panandikar S.G. And Mithani D.M.: Banking in India; orient Longman.
4. Reserve Bank of India: Functions and Working.
5. Dekock: Central Banking; Crosby lock wood Staples, London.
6. Tannan M.L.: Banking - Law and Practice in India: India Law House, New Delhi.
7. Knubchandani B.S.: Practice and Law of Banking; Macmillan, New Delhi.
8. Shekhar and Shekhar: Banking Theory and Practice; Vikas Publishing House, New Delhi.
9. Harishchandra Sharma.
10. M.L. Singhai.


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PROGRAMMING IN VISUAL BASIC

(Paper Code-1165)

UNIT-I Introduction to Visual Basic, Programs, Variables :

Editions of Visual Basic, Event Driven Programming, Terminology, Working environment, project and executable files, Understanding modules, Using the code editor window, Other code navigation features, Code documentation and formatting, environment options, code formatting option automatic code completion features. Introduction to objects, Controlling objects, Properties, methods and events, Working with forms, interacting with the user: MsgBox function, InputBox function, Code statements, Managing forms, Creating a program in Visual Basic, Printing, Overview of variables, User-defined data types, constants working with procedures, Working with dates and times, Using the Format Function, Manipulating text string.

UNIT-II Controlling Program Execution, Working with Control

Comparison and logical operators, If...Then statements, Select Case Statements looping structures, Using Do...Loop structures, For...Next statement, Exiting a loop, Types of controls, Overview of standard controls, ComboBox and ListBox, OptionButton and Frame controls Menu, Status bars, Toolbars, Advanced standard controls, ActiveX controls, Insertable objects, Arrays, Dynamic Arrays.

UNIT-III Procedure, Function Error Trapping & Debugging

Procedure, Function, call by value, call by reference, Type definition, with object, Validation, Overview of run-time errors, error handling process, The Error object, Errors and calling chain, Errors in an error-handling routine, Inline error handling, Error handling styles, General error-trapping options Type of errors, Break mode Debug toolbar, Watch window, Immediate window, Local window, Tracing Program flow with the Call Stack.

UNIT-IV Sequential and Random Files :

Saving data to file, basic filling, data analysis and file, the extended text editor, File organization Random access file, The design and coding, File Dialog Box, Picture Box, Image box, Dialog Box, using clipboard, Copy, Cut, Paste of Text & Picture in Clipboard, Use of Grid Control Multiple document interface, Single document interface.

UNIT-V Data Access Using the ADO Data Control & Report Generation

Overview of ActiveX data Objects, Visual Basic data access features, Relational database concepts Using the ADO Data control to access data, Overview of DAO, RDO, Data Control, structured query language (SQL), Manipulating data Using Data Form Wizard, Overview of Report, Data Report, Add groups, Data Environment, Connection to database Introduction to Crystal Report Generator.

BOOK REFERENCE :

1. Visual Basic Programming – Reeta Sahu, B.P.B. Publication.
2. Mastering in Visual Basic - By BPB Publications.
3. Visual Basic Programming - Mark Brit.

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UNIT-I Introduction -

Systems Concepts and the information systems environment : Definition of system, Characteristics of system, elements of system, types of system, The system Development life cycle : consideration of candidates system. The Role of system Analyst : Introduction, the multiphase role of the analyst, the analyst / user interface, the place of the analyst in the MIS Organization

UNIT-II System Analysis, Tools of Structured Analysis, Feasibility Study-

System Planning and initial investigation : Basis for planning in systems analysis, initial investigation, fact finding, fact analysis, determination of feasibility.

Information Gathering : Kind of information, information gathering tools.

Structured Analysis, Flow chart, DFD, Data Dictionary, Decision Tree, Structured English, Decision Table. System Performance, Feasibility Study, Data Analysis.

UNIT-III System Design & System Implementation -

The process of Design Methodologies. Input Design, Output Design, Form Design, File Structure, File organization, data base design, System Testing, the test plan, quality assurance, data processing auditor, Conversion, Post implementation review, Software Maintenance.

UNIT-IV Introduction to MIS & Other Subsystem-

Evolution of MIS, Need of MIS, Definition & Benefits of MIS, Characteristic, Role component of Information system, data base as a future of MIS, Decision making, logic of Management Information system, Structure of MIS.

UNIT-V Information System Concept -

Difference between Transaction Processing System (TPS) and Management Information System, How MIS works, MIS and Information Resource Management, Quality information Building Blocks for the information system, information system concept, Other system characteristic (Open & Closed System), difference between MIS & Strategic System, Adaptive system, Business function information system.

BOOK REFERENCE :

1. System Analysis and Design - Elias M. Awad.
2. System Analysis and Design - Alan Dennis & Barbara Haley Wix.
3. Management Information systems - C.S.V. Murthy, Himalaya Publication House.

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B.Com-III

PAPER - III

PRACTICAL EXERCISES BASED ON PAPER I & II

Practicals to be done -

1. At least 20 practical - exercises covering the contents of paper - I (e.g. Designing calculator, sorting of elements, Generating Fibonacci series)
2. Design the Project on one of the following - Application Software / Website Design/Accounting software / Inventory control System / System Software & other (e.g. Library Management System, Medical management, Stock Management, Hotel Management, Website for your institute / Website of any Organization)
3. The Project Report cover the following topic - Objective, Hardware & Software Requirements, Analysis, Design, Coding, input forms, testing, Reports, Future enhancement of s/w.
4. Practical exam is based on the Project Demonstration & report.

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V.P.

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H.

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हेमचंद्र यादव विश्वविद्यालय, दुर्ग (छ.ग.)

(पूर्व नाम- दुर्ग विश्वविद्यालय, दुर्ग)

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दूरभाष : 0788-2359400

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दुर्ग. दिनांक 04/07/2019

प्रति,

प्राचार्य,

समस्त संघन महाविद्यालय,

हेमचंद्र यादव विश्वविद्यालय,

दुर्ग (छ.ग.)

विषय:- स्नातक स्तर भाग-एक के पाठ्यक्रम विषयक।

संदर्भ:- संयुक्त संचालक, उच्च शिक्षा विभाग के पत्र क्र. 2456/315/आउशि/सम/2019, दिनांक 16.05.2019।

—00—

विषयांतर्गत लेख है कि संदर्भित पत्र के माध्यम से प्राप्त स्नातक स्तर भाग-एक के निम्नलिखित कक्षा/विषयों के परिवर्तित/संशोधित पाठ्यक्रम शिक्षा सत्र 2019-20 से लागू किये जाते हैं:-

1. बी.ए. - आधार पाठ्यक्रम-हिन्दी भाषा, हिन्दी साहित्य, राजनीतिशास्त्र, अर्थशास्त्र, नृत्य, दर्शनशास्त्र, समाजशास्त्र, इतिहास, मानवविज्ञान, संस्कृत, सांख्यिकी, प्राचीन भारतीय इतिहास, भूगोल, मनोविज्ञान, लाइब्रेरी साईंस
2. बी.एस.-सी. - आधार पाठ्यक्रम-हिन्दी भाषा, जीव विज्ञान, मानवविज्ञान, बायोटेक्नोलॉजी, कम्प्यूटर साईंस, गणित, भौतिक शास्त्र, प्राणीशास्त्र, सूक्ष्मजीव विज्ञान, वनस्पतिशास्त्र, भूविज्ञान, इलेक्ट्रॉनिक्स, रसायन शास्त्र, सांख्यिकी, भूगोल।
3. बी.एस.सी.- (गृह विज्ञान) - आधार पाठ्यक्रम - हिन्दी भाषा एवं गृह विज्ञान।
4. विधि - एल.एल.बी.
5. प्रबंध - बी.बी.ए.

उपरोक्त विषयों को शिक्षा सत्र 2019-20 से संशोधित रूप में स्नातक स्तर भाग-एक के लिए लागू किया जाता है स्नातक स्तर भाग दो एवं तीन के पाठ्यक्रम यथावत रहेंगे।

अतः आपसे अनुरोध है कि पाठ्यक्रम परिवर्तन/संशोधन से महाविद्यालय के शिक्षकों एवं छात्र-छात्राओं को अवगत कराने का कष्ट करेंगे।

टीप :- परिवर्तित/संशोधित पाठ्यक्रम विश्वविद्यालय की वेबसाइट पर उपलब्ध है।

संलग्न : उपरोक्तानुसार।

कुलसचिव

संशोधित पाठ्यक्रम
बी.ए./बी.एस-सी./बी.कॉम./बी.एच.एस.-सी.
भाग - एक (आधार पाठ्यक्रम)
प्रश्न पत्र- प्रथम (हिन्दी भाषा)
(पेपर कोड -0101)

पूर्णांक- 75

ट :-

1. प्रश्न पत्र 75 अंक का होगा।
2. प्रश्न पत्र अनिवार्य होगा।
3. इसके अंक श्रेणी निर्धारण के लिए जोड़े जायेंगे।
4. प्रत्येक इकाई के अंक समान होंगे।

पाठ्य विषय :-

इकाई-1

- क. पल्लवन, पत्राचार, अनुवाद, पारिभाषिक शब्दावली एवं हिंदी में पदनाम
ख. **ईदगाह (कहानी) - मुंशी प्रेमचंद**

इकाई-2

- क. शब्द शुद्धि, वाच्य शुद्धि, शब्द ज्ञान-पर्यायवाची शब्द, विलोम शब्द, अनेकार्थी शब्द, समश्रुत शब्द, अनेक शब्दों के लिए एक शब्द एवं मुहावरें-लोकोक्तियाँ
ख. भारत चंदना (कविता) - सूर्यकान्त त्रिपाठी निराला

इकाई-3

- क. देवनागरी लिपि - नामकरण, स्वरूप एवं देवनागरी लिपि की विशेषताएँ, हिंदी अपठित गद्यांश, संक्षेपण, हिंदी में संक्षिप्तीकरण
ख. भोलाराम का जीव (व्यंग्य) - हरिशंकर परसाई

इकाई-4

- क. **कम्प्यूटर का परिचय एवं कम्प्यूटर में हिंदी का अनुप्रयोग**
ख. शिक्षागो से स्वामी विवेकानंद का पत्र

इकाई-5

- क. मानक हिन्दी भाषा का अर्थ, स्वरूप, विशेषताएँ, मानक, उपमानक, अमानक भाषा
ख. **सामाजिक गतिशीलता - प्राचीन काल, मध्यकाल, आधुनिक काल**

मूल्यांकन योजना :-

प्रत्येक इकाई से एक-एक प्रश्न पूछा जाएगा। प्रत्येक प्रश्न में आंतरिक विकल्प होगा। प्रत्येक प्रश्न के 15 अंक होंगे। प्रत्येक प्रश्न के दो भाग 'क' और 'ख' होंगे एवं अंक क्रमशः 8 एवं 7 होंगे। प्रश्न-पत्र का पूर्णांक 75 निर्धारित है।

पाठ्यक्रम संशोधन का औचित्य :-

व्याकरण के बुनियादी ज्ञान, संश्लेषण, यौगल, सामाजिक संदेश एवं भाषायी दक्षता को ध्यान में रखते हुए यह पाठ्यक्रम प्रस्तावित है।

**FOUNDATION COURSE
PAPER - II
ENGLISH LANGUAGE
(Paper code - 0792)**

M.M. 75

- UNIT-1** Basic Language skills : Grammar and Usage.
Grammar and Vocabulary based on the prescribed text.
To be assessed by objective / multiple choice tests.
(Grammar - 20 Marks
Vocabulary - 15 Marks)
- UNIT-2** Comprehension of an unseen passage. 05
This should simply not only (a) an understanding of the passage in question, but also.
(b) a grasp of general language skills and issues with reference to words and usage within the passage and (c) the Power of short independent composition based on themes and issues raised in the passage.
To be assessed by both objective multiple choice and short answer type tests.
- UNIT-3** Composition : Paragraph writing 10
- UNIT-4** Letter writing (The formal and one Informal) 10
Two letters to be attempted of 5 marks each. One formal and one informal.
- UNIT-5** Texts : 15
Short prose pieces (Fiction and not fiction) short poems, the pieces should cover a range of authors, subjects and contexts. With poetry if may sometimes be advisable to include pieces from earlier periods, which are often simpler than modern examples. In all cases, the language should be accessible (with a minimum of explanation and reference to standard dictionaries) to the general body of students schooled in the medium of an Indian language.
Students should be able to grasp the contents of each piece ; explain specific words, phrases and allusions; and comment on general points of narrative or argument. **Formal Principles of Literary criticism should not be taken up at this stage.**
To be assessed by five short answers of three marks each.

BOOKS PRESCRIBED -

English Language and Indian Culture - Published by M.P. Hindi Grant Academy Bhopal.

Dr. M. C. Chakraborty Dr. S. Gupta Dr. MERILY ROY

Session
2019-20

PHYSICS

OBJECTIVES OF THE COURSE

The undergraduate training in physics is aimed at providing the necessary inputs so as to set forth the task of bringing about new and innovative ideas/concepts so that the formulated model curricula in physics becomes in tune with the changing scenario and incorporate new and rapid advancements and multi disciplinary skills, societal relevance, global interface, self sustaining and supportive learning.

It is desired that undergraduate i.e. B.Sc. level besides grasping the basic concepts of physics should in addition have broader vision. Therefore, they should be exposed to societal interface of physics and role of physics in the development of technologies.

EXAMINATION SCHEME:

1. There shall be 2 theory papers of 3 hours duration each and one practical paper of 4 hours duration. Each paper shall carry 50 marks.
2. Numerical problems of at least 30% will compulsorily be asked in each theory paper.
3. In practical paper, each student has to perform two experiments one from each groups as listed in the list of experiments.
4. Practical examination will be of 4 hours duration- one experiment to be completed in 2 hours.

The distribution practical marks as follows:

Experiment	: 15+15=30
Viva voce	: 10
Internal assessment	: 10

5. The external examiner should ensure that at least 16 experiments are in working order at the time of examination and submit a certificate to this effect.

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HEMCHAND YADAV VISHWAVIDYALAYA, DURG (C.G.)
NEW CURRICULUM OF B.Sc. PART I
Session 2019-20
CHEMISTRY

The new curriculum will comprise of three theory papers of 33, 33 and 34 marks each and practical work of 50 marks. The curriculum is to be completed in 180 working days as per the UGC norms & conforming to the directives of the Govt. of Chhattisgarh. The theory papers are of 60 hrs each duration and the practical work of 180 hrs duration.

PAPER I
INORGANIC CHEMISTRY

60Hrs. M.M.33

UNIT-I

A. ATOMIC STRUCTURE

Bohr's theory, its limitation and atomic spectrum of hydrogen atom. General idea of de-Broglie matter-waves, Heisenberg uncertainty principle, Schrödinger wave equation, significance of Ψ and Ψ^2 , radial & angular wave functions and probability distribution curves, quantum numbers, Atomic orbital and shapes of s, p, d orbitals, Aufbau and Pauli exclusion principles, Hund's Multiplicity rule, electronic configuration of the elements.

B. PERIODIC PROPERTIES

Detailed discussion of the following periodic properties of the elements, with reference to s and p-block. Trends in periodic table and applications in predicting and explaining the chemical behavior.

- a) Atomic and ionic radii,
- b) Ionization enthalpy,
- c) Electron gain enthalpy,
- d) Electronegativity, Pauling's, Mulliken's, Allred Rochow's scales.
- e) Effective nuclear charge, shielding or screening effect, Slater rules, variation of effective nuclear charge in periodic table.

UNIT-II

CHEMICAL BONDING I

Ionic bond: Ionic Solids - Ionic structures, radius ratio & co-ordination number, limitation of radius ratio rule, lattice defects, semiconductors, lattice energy Born- Haber cycle, Solvation energy and solubility of ionic solids, polarising power & polarisability of ions, Fajans rule, Ionic character in covalent compounds; Bond moment and dipole moment, Percentage ionic character from dipole moment and electronegativity difference, Metallic bond-free electron, Valence bond & band theories.

B.Sc.-I

08/01/2019 *Durg* *Nals* *gprakash* *V. K. Sharma*

IT-III

CHEMICAL BONDING II

Covalent bond: Lewis structure, Valence bond theory and its limitations, Concept of hybridization, Energetics of hybridization, equivalent and non-equivalent hybrid orbitals, Valence shell electron pair repulsion theory (VSEPR), shapes of the following simple molecules and ions containing lone pairs and bond pairs of electrons: H_2O , NH_3 , PCl_3 , PCl_5 , SF_6 , H_3O^+ , SF_4 , ClF_3 , and ICl_2^- . Molecular orbital theory, Bond order and bond strength, Molecular orbital diagrams of diatomic and simple polyatomic molecules N_2 , O_2 , F_2 , CO , NO .

UNIT-IV

A. s-BLOCK ELEMENTS

General concepts on group relationships and gradation properties, Comparative study, salient features of hydrides, solvation & complexation tendencies including their function in biosystems and introduction to alkyl & aryls, Derivatives of alkali and alkaline earth metals

B. p-BLOCK ELEMENTS

General concepts on group relationships and gradation properties. Halides, hydrides, oxides and oxyacids of Boron, Aluminum, Nitrogen and Phosphorus. Boranes, borazines, fullerenes, graphene and silicates, interhalogens and pseudohalogens.

UNIT-V

A CHEMISTRY OF NOBLE GASES

Chemical properties of the noble gases, chemistry of xenon, structure, bonding in xenon compounds

B. THEORETICAL PRINCIPLES IN QUALITATIVE ANALYSIS (H₂S SCHEME)

Basic principles involved in the analysis of cations and anions and solubility products, common ion effect. Principles involved in separation of cations into groups and choice of group reagents. Interfering anions (fluoride, borate, oxalate and phosphate) and need to remove them after Group II.

REFERENCE BOOKS:

1. Lee, J. D. Concise Inorganic Chemistry ELBS, 1991.
2. Douglas, B.E. and McDaniel, D.H. Concepts & Models of Inorganic Chemistry Oxford, 1970
3. Atkins, P.W. & Paula, J. Physical Chemistry, 10th Ed., Oxford University Press, 2014.
4. Day, M.C. and Selbin, J. Theoretical Inorganic Chemistry, ACS Publications, 1962.
5. Rodger, G.E. Inorganic and Solid State Chemistry, Cengage Learning India Edition, 2002.
6. Puri, B. R., Sharma, L. R. and Kalia, K. C., Principles of Inorganic Chemistry, Milestone Publishers/ Vishal Publishing Co.; 33rd Edition 2016
7. Madan, R. D. Modern Inorganic Chemistry, S Chand Publishing, 1987.

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PAPER: II
ORGANIC CHEMISTRY

UNIT-I BASICS OF ORGANIC CHEMISTRY

Hybridization, Shapes of molecules, Influence of hybridization on bond properties. Electronic Displacements: Inductive, electromeric, resonance and mesomeric effects, hyperconjugation and their applications; Dipole moment. Electrophiles and Nucleophiles; Nucleophilicity and basicity; Homolytic and Heterolytic cleavage, Generation, shape and relative stability of Carbocations, Carbanions, Free radicals, Carbenes and Nitrenes. Introduction to types of organic reactions: Addition, Elimination and Substitution reactions.

UNIT-II INTRODUCTION TO STEREOCHEMISTRY

Optical Isomerism: Optical Activity, Specific Rotation, Chirality/Asymmetry, Enantiomers, Molecules with two or more chiral-centres, Diastereoisomers, meso compounds, Relative and absolute configuration: Fischer, Newmann and Sawhorse Projection formulae and their interconversions; Erythrose and threose, D/L, d/l system of nomenclature, Cahn-Ingold-Prelog system of nomenclature (C.I.P rules), R/S nomenclature. Geometrical isomerism: cis-trans, syn-anti and E/Z notations.

UNIT-III CONFORMATIONAL ANALYSIS OF ALKANES

Conformational analysis of alkanes, ethane, butane, cyclohexane and sugars. Relative stability and Energy diagrams. Types of cycloalkanes and their relative stability, Baeyer strain theory: Theory of strainless rings, Chair, Boat and Twist boat conformation of cyclohexane with energy diagrams; Relative stability of mono-substituted cycloalkanes and disubstituted cyclohexane.

UNIT-IV CHEMISTRY OF ALIPHATIC HYDROCARBONS

A. Carbon-Carbon sigma (σ) bonds

Chemistry of alkanes: Formation of alkanes, Wurtz Reaction, Wurtz-Fittig Reaction, Free radical substitutions: Halogenation-relative reactivity and selectivity.

B. Carbon-Carbon Pi (π) bonds:

Formation of alkenes and alkynes by elimination reactions, Mechanism of E1, E2, E1cb reactions. Saytzeff and Hofmann eliminations.

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Reactions of alkenes: Electrophilic additions and mechanisms (Markownikoff/Anti -Markownikoff addition), mechanism of oxymercuration-demercuration, hydroboration-oxidation, ozonolysis, reduction (catalytic and chemical), syn and anti-hydroxylation (oxidation). 1,2- and 1,4-addition reactions in conjugated dienes and, Diels-Alder reaction; Allylic and benzylic bromination and mechanism, e.g. propene, 1-butene, toluene, ethyl benzene.

Reactions of alkynes: Acidity, Electrophilic and Nucleophilic additions, Hydration to form carbonyl compounds, Alkylation of terminal alkynes.

UNIT-V AROMATIC HYDROCARBONS

Aromaticity: Hückel's rule, aromatic character of arenes, cyclic carbocations/ carbanions and heterocyclic compounds with suitable examples. Electrophilic aromatic substitution: halogenation, nitration, sulphonation and Friedel-Craft's alkylation/acylation with their mechanism. Directive effects of the groups.

REFERENCE BOOKS:

1. Morrison, R. N. & Boyd, R. N. Organic Chemistry, Dorling Kindersley (India) Pvt. Ltd. (Pearson Education).
2. Finar, I. L. Organic Chemistry (Volume 1), Dorling Kindersley (India) Pvt. Ltd. (Pearson Education).
3. Finar, I. L. Organic Chemistry (Volume 2: Stereochemistry and the Chemistry of Natural Products), Dorling Kindersley (India) Pvt. Ltd. (Pearson Education).
4. Eliel, E. L. & Wilen, S. H. Stereochemistry of Organic Compounds, Wiley, London, 1994.
5. Kalsi, P. S. Stereochemistry Conformation and Mechanism, New Age International, 2005.
6. McMurry, J.E. Fundamentals of Organic Chemistry, 7th Ed. Cengage Learning India Edition, 2013.
7. Organic Chemistry, Paula Y. Bruice, 2nd Edition, Prentice-Hall, International Edition (1998).
8. A Guide Book of Reaction Mechanism by Peter Sykes.

B.Sc-I

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Nals

Pradeep

V. K. Sharma

UNIT-I
MATHEMATICAL CONCEPTS FOR CHEMIST

Basic Mathematical Concepts: Logarithmic relations, curve sketching, linear graphs, Properties of straight line, slope and intercept, Functions, Differentiation of functions, maxima and minima; integrals; ordinary differential equations; vectors and matrices; determinants; Permutation and combination and probability theory, Significant figures and their applications.

UNIT-II
GASEOUS STATE CHEMISTRY

Kinetic molecular model of a gas: postulates and derivation of the kinetic gas equation; collision frequency; collision diameter; mean free path; Maxwell distribution and its use in evaluating molecular velocities (average, root mean square and most probable) and average kinetic energy, law of equipartition of energy, degrees of freedom and molecular basis of heat capacities. Joule Thomson effect, Liquification of Gases.

Behaviour of real gases: Deviations from ideal gas behaviour, compressibility factor (Z), and its variation with pressure and temperature for different gases. Causes of deviation from ideal behaviour. van der Waals equation of state, its derivation and application in explaining real gas behaviour, calculation of Boyle temperature. Isotherms of real gases and their comparison with van der Waals isotherms, continuity of states, critical state, relation between critical constants and van der Waals constants, law of corresponding states.

UNIT-III

A. LIQUID STATE CHEMISTRY

Intermolecular forces, magnitude of intermolecular force, structure of liquids, Properties of liquids, viscosity and surface tension.

B. COLLOIDS and SURFACE CHEMISTRY

Classification, Optical, Kinetic and Electrical Properties of colloids, Coagulation, Hardy Schulze law, flocculation value, Protection, Gold number, Emulsion, micelles and types, Gel, Syneresis and thixotrophy, Application of colloids.

Physical adsorption, chemisorption, adsorption isotherms (Langmuir and Freundlich). Nature of adsorbed state. Qualitative discussion of BET.

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UNIT-IV

SOLID STATE CHEMISTRY

Nature of the solid state, law of constancy of interfacial angles, law of rational indices, Miller indices, elementary ideas of symmetry, symmetry elements and symmetry operations, qualitative idea of point and space groups, seven crystal systems and fourteen Bravais lattices; X-ray diffraction, Bragg's law, a simple account of rotating crystal method and powder pattern method. Crystal defects.

UNIT-V

A. CHEMICAL KINETICS

Rate of reaction, Factors influencing rate of reaction, rate law, rate constant, Order and molecularity of reactions, rate determining step, Zero, First and Second order reactions, Rate and Rate Law, methods of determining order of reaction, Chain reactions.

Temperature dependence of reaction rate, Arrhenius theory, Physical significance of Activation energy, collision theory, demerits of collision theory, non mathematical concept of transition state theory.

B. CATALYSIS

Homogeneous and Heterogeneous Catalysis, types of catalyst, characteristic of catalyst, Enzyme catalysed reactions, Micellar catalysed reactions, Industrial applications of Catalysis.

REFERENCE BOOKS:

1. Atkins, P. W. & Paula, J. de Atkin's Physical Chemistry 10th Ed., Oxford University Press (2014).
2. Ball, D. W. Physical Chemistry Thomson Press, India (2007).
3. Castellon, G. W. Physical Chemistry 4th Ed. Narosa (2004).
4. Mortimer, R. G. Physical Chemistry 3rd Ed. Elsevier, NOIDA, UP (2009).
5. Engel, T. & Reid, P. Physical Chemistry 3rd Ed. Pearson (2013).
6. Puri, B.R., Sharma, L. R. and Pathania, M.S., Principles of Physical Chemistry, Vishal Publishing Co., 47th Ed. (2016).
7. Bahl, A., Bahl, B.S. and Tuli, G.D. Essentials of Physical Chemistry, S Chand Publishers (2010).
8. Rakshit P.C., Physical Chemistry, Sarat Book House Ed. (2014).
9. Singh B., Mathematics for Chemist, Pragati Publications.

B.Sc.-I

Adarsh
24/6/13

Dipankar
24/6/13

Nalini

Prasanna

Vijay

PAPER - IV LABORATORY COURSE

INORGANIC CHEMISTRY

A. Semi-micro qualitative analysis (using H_2S or other methods) of mixtures - not more than four ionic species (two anions and two cations, excluding interfering, insoluble salts) out of the following:

Cations : NH_4^+ , Pb^{2+} , Bi^{3+} , Cu^{2+} , Cd^{2+} , Fe^{3+} , Al^{3+} , Co^{2+} , Ni^{2+} , Mn^{2+} , Zn^{2+} , Ba^{2+} , Sr^{2+} , Ca^{2+} , Na^+

Anions : CO_3^{2-} , S^{2-} , SO_3^{2-} , $S_2O_3^{2-}$, NO_2^- , CH_3COO^- , Cl^- , Br^- , I^- , NO_3^- , SO_4^{2-}

(Spot tests may be carried out wherever feasible)

B. Acid-Base Titrations

- Standardization of sodium hydroxide by oxalic acid solution.
- Determination of strength of HCl solution using sodium hydroxide as intermediate.
- Estimation of carbonate and hydroxide present together in mixture.
- Estimation of carbonate and bicarbonate present together in a mixture.
- Estimation of free alkali present in different soaps/detergents

C. Redox Titrations

- Standardization of $KMnO_4$ by oxalic acid solution.
- Estimation of Fe(II) using standardized $KMnO_4$ solution.
- Estimation of oxalic acid and sodium oxalate in a given mixture.
- Estimation of Fe(II) with $K_2Cr_2O_7$ using internal (diphenylamine, anthranilic acid) and external indicator.

D. Iodo / Iodimetric Titrations

- Estimation of Cu(II) and $K_2Cr_2O_7$ using sodium thiosulphate solution iodimetrically.
- Estimation of (a) arsenite and (b) antimony iodimetrically.
- Estimation of available chlorine in bleaching powder iodometrically.
- Estimation of Copper and Iron in mixture by standard solution of $K_2Cr_2O_7$ using sodium thiosulphate solution as titrants.

ORGANIC CHEMISTRY

1. Demonstration of laboratory Glasswares and Equipments.
2. Calibration of the thermometer. $80^\circ-82^\circ$ (Naphthalene), $113.5^\circ-114^\circ$ (Acetanilide), $132.5^\circ-133^\circ$ (Urea), 100° (Distilled Water).
3. Purification of organic compounds by crystallization using different solvents.
 - Phthalic acid from hot water (using fluted filter paper and stemless funnel).
 - Acetanilide from boiling water.
 - Naphthalene from ethanol.
 - Benzoic acid from water.

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4. Determination of the melting points of organic compounds.

Naphthalene 80° - 82° , Benzoic acid 121.5° - 122° , Urea 132.5° - 133° Succinic acid 184.5° - 185° , Cinnamic acid 132.5° - 133° , Salicylic acid 157.5° - 158° , Acetanilide 113.5° - 114° , m-Dinitrobenzene 90° , p-Dichlorobenzene 52° , Aspirin 135° .

5. Effect of impurities on the melting point – mixed melting point of two unknown organic compounds.

- Urea – Cinnamic acid mixture of various compositions (1:4, 1:1, 4:1).

6. Determination of boiling point of liquid compounds. (boiling point lower than and more than 100°C by distillation and capillary method).

- Ethanol 78° , Cyclohexane 81.4° , Toluene 110.6° , Benzene 80° .

i. Distillation (Demonstration)

- Simple distillation of ethanol-water mixture using water condenser.
- Distillation of nitrobenzene and aniline using air condenser.

ii. Sublimation

- Camphor, Naphthalene, Phthalic acid and Succinic acid.

iii. Decolorisation and crystallization using charcoal.

- Decolorisation of brown sugar with animal charcoal using gravity filtrations crystallization and decolorisation of impure naphthalene (100 g of naphthalene mixed with 0.3 g of Congo red using 1 g of decolorizing carbon) from ethanol.

7. Qualitative Analysis

Detection of elements (N, S and halogens) and functional groups (Phenolic, Carboxylic, Carbonyl, Esters, Carbohydrates, Amines, Amides, Nitro and Anilide) in simple organic compounds.

PHYSICAL CHEMISTRY

1. Surface tension measurements.

- Determine the surface tension by (i) drop number (ii) drop weight method.
- Surface tension composition curve for a binary liquid mixture.

2. Viscosity measurement using Ostwald's viscometer.

- Determination of viscosity of aqueous solutions of (i) sugar (ii) ethanol at room temperature.

B.Sc.-I

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Notes

Dr. Prakash

V. J. Kumar

- Study of the variation of viscosity of sucrose solution with the concentration of solute.
- Viscosity Composition curve for a binary liquid mixture.

3. Chemical Kinetics

- To determine the specific rate of hydrolysis of methyl/ethyl acetate catalysed by hydrogen ions at room temperature.
- To study the effect of acid strength on the hydrolysis of an ester.
- To compare the strengths of HCl & H₂SO₄ by studying the kinetics of hydrolysis of ethyl acetate.

4. Colloids

- To prepare colloidal solution of silver nanoparticles (reduction method) and other metal nanoparticles using capping agents.

Note: Experiments may be added/ deleted subject to availability of time and facilities.

B.Sc-I

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PRACTICAL EXAMINATION

05 Hrs. M.M. 50

Three experiments are to be performed

1. Inorganic Mixture Analysis, four radicals two basic & two acid (excluding insoluble, Interfering & combination of acid radicals) OR Two Titrations (Acid-Bases, Redox and Iodo/Iodimetry) **12 marks**
 2. Detection of functional group in the given organic compound and determine its MPT/BPT **8 marks**
OR
Crystallization of any one compound as given in the prospectus along with the Determination of mixed MPT.
OR
Decolorisation of brown sugar along with sublimation of camphor/ Naphthlene.
 3. Any one physical experiment that can be completed in two hours including calculations. **14 marks**
 4. Viva **10 marks**
 5. Sessionals **06 marks**
- In case of Ex-Students two marks will be added to each of the experiments

REFERENCE TEXT:

1. Mendham, J., A. I. Vogel's Quantitative Chemical Analysis 6th Ed., Pearson, 2009.
2. Ahluwalia, V. K., Dhingra, S. and Gulati, A. College practical Chemistry, University Press.
3. Mann, F.G. & Saunders, B.C. Practical Organic Chemistry, Pearson Education (2009)
4. Furniss, B.S.; Hannaford, A.J.; Smith, P.W.G.; Tatchell, A.R. Practical Organic Chemistry, 5th Ed., Pearson (2012)
5. Khosla, B. D.; Garg, V. C. & Gulati, A. Senior Practical Physical Chemistry, R. Chand & Co.: New Delhi (2011).
6. Garland, C. W.; Nibler, J. W. & Shoemaker, D. P. Experiments in Physical Chemistry 8th Ed.; McGraw-Hill: New York (2003).
7. Halpern, A. M. & McBane, G. C. Experimental Physical Chemistry 3rd Ed.; W.H. Freeman & Co.: New York (2003).

B.Sc.-I

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B.Sc.- I (BOTANY) PAPER-I

BACTERIA, VIRUSES, FUNGI, LICHENS AND ALGAE

UNIT-I

VIRUSES: General characteristics, types of viruses based on structure and genetic material. Multiplication of viruses (General account), Lytic and Lysogenic cycle. Economic importance. Structure and multiplication of Bacteriophages. General account of Viroids, Virusoids, Prions, and Cyanophages. Mycorrhiza-Types and Significance.

UNIT -II

BACTERIA: General characteristics and classification (on the basis of morphology), fine structure of bacterial cell, Gram positive and Gram negative bacteria, mode of nutrition and reproduction vegetative, asexual and recombination (Conjugation, transformation and transduction), Economic importance. Microbial Biotechnology, *Rhizobium*, *Azotobacter*, *Anabaena*.

UNIT-III

FUNGI: General account of habit and habitat, structure (range of thallus organization), cell wall composition, nutrition and reproduction in fungi. Heterothallism and Parasexuality. Outlines of classification of fungi. Economic importance of fungi. Life cycles of *Saprolegnia*, *Albugo*, *Aspergillus*, *Peziza*, *Agaricus*, *Ustilago*, *Puccinia*, *Alternaria* and *Cercospora*. VAM Fungi

UNIT-IV

ALGAE: Algae: General characters, range of thallus organization, Gaidukov phenomenon, reproduction, life cycle patterns and economic importance. Classification, Systematic position, occurrence, structure and life cycle of following genera : *Nostoc*, *Gloeoactypsa*, *Volvox*, *Oedogonium*, *Vaucheria*, *Chara*, *Ectocarpus*, *Polysiphonia*.

UNIT -V

Lichens: General account, types, structure, nutrition, reproduction and economic importance. Mycoplasma: Structure and importance. Blue Green Algae (BGA) in nitrogen economy of soil and reclamation of Usbar land. Mushroom Biotechnology

Books Recommended:

- Dubey R.C. and Maheshwari D.K. *A text book of Microbiology*, S. Chand Publishing, New Delhi
Presscott, L. Harley, J and Klein, D. *Microbiology*, 7th edition, Tata Mc Graw-Hill Co. New Delhi.
Sharma P.D., *Microbiology and Plant pathology*, Rastogi Publication. New Delhi.

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Alexopoulos, C.J. Mims, C.W. and Blackwell, M.M. *Introduction to Mycology*, John Wiley & Sons.
 Dubey H.C. *An Introduction to Fungi*, Vikas Publishing, New Delhi
 Mehrotra R.S. & Agrawal A., *Plant Pathology*, Tata McGraw, New Delhi
 Sharma P.D. *Plant Pathology*, Rastogi Publishers, Meerut.
 Srivastava, H.N. *Fungi*, Pradeep Publications, Jalandhar
 Webster, J. & Weber, R. *Introduction to Fungi*, Cambridge University Press, Cambridge
 Kumar H.D. *Introduction to phycology*, Af. East-west Press, New Delhi
 Lee RE. *Phycology*, Cambridge University Press U.K.
 Srivastava, H.N., *Algae*, Pradeep Publications, Jalandhar
 Pandey S.K. *Quick Concept of Botany*, Lambert Academic publishing, Germany
 Pandey S.N., Mishra S.P. & Trivedi P.S. *A Text Book of Botany (Vol. I)*, Vikas Publishing, New Delhi
 Singh, Pandey and Jain, *A Text book of Botany*, Rastogi Publication, Meerut.

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Govt. Bilasa Girls College, Bilaspur

(Mr. Shivakant Mishra)

(Mr. Sudheer Tiwari)

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B.Sc.-I (BOTANY) PAPER –II
(BRYOPHYTES, PTERIDOPHYTES, GYMNOSPERMS AND
PALAEOBOTANY)

UNIT -I

BRYOPHYTA: General characteristics, affinities, range of thallus organization, general classification and economic & ecological importance; Systematic position, occurrence, morphology anatomy and reproductive structure in *Riccia*, *Marchantia*, *Pellia*, *Anthoceros*, *Funaria*. Vegetative reproduction in Bryophytes, Evolution of sporophytes.

UNIT-II

PTERIDOPHYTES: General characteristics, affinities, economic importance and classification, Heterospory and seed habit, stellar system in Pteridophytes, Aposory and apogamy, Telome theory, *Azolla* as Biofertilizer.

UNIT-III

Systematic position, occurrence. Morphology, anatomy and reproductive structure of *Psilotum*, *Lycopodium*, *selaginella*, *Equisetum*, *Marsilea*.

UNIT-IV

Gymnosperm: General characteristics, affinities, economic importance and classification, Morphology, anatomy and reproduction in *Cycas*, *Pinus* and *Ephedra*.

UNIT-V

PALAEOBOTANY: Geological time scale, types of fossils and fossilization, Rhynia, study of some fossil gymnosperms. *Lygenopteris*

Books Recommended:

Parihar, N.S. *The Biology and Morphology of Pteridophytes*, Central Book Depot, Allahabad.

Parihar, N.S. *An introduction to Bryophyta Vol.I: Bryophytes* Central Book Depot, Allahabad.

Sambamurty, AVSS, *A textbook of Bryophytes, Pteridophytes, Gymnosperms and Palaeobotany*, IK International Publishers.

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Pandey SN, Mishra SP and Trivedi PS *A text Book of Botany (Vol.II)*, Vikas Publishing, New Delhi

Bhatanagar, SP and Moitra, A. *Gymnosperm*, New Age International (P) Ltd., Publishers, New Delhi

Biswas C. and Johri BM, *The Gymnosperms*, Springer-Verlag, Germany.

Srivastava, HN, *Palaeobotany*, Pradeep Publications Jalandhar

Srivastava, HN, *Bryophyta*, Pradeep Publications Jalandhar

Singh, Pandey and Jain, *A Text Book of Botany*, Rastogi Publication, Meerut

Srivastava, HN, *Fundamentals of Pteridophytes*, Pradeep Publications, Jalandhar

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B.Sc. I (BOTANY)

PRACTICAL

Study of external (Morphological) and internal (microscopic/anatomical) features of representative genera given in the theory.

1. Algae: Gloeocapsa, Scytonema, Gloeotrichia, Volvox, Oedogonium, Vaucheria, Chara, Ectocarpus, Sargassum, Botrydium
2. Gram staining
3. Fungi: Albugo, Aspergillus, Peziza, Agaricus, Puccinia, Alternaria and Cercospora
4. Bryophyta: Riccia, Marchantia, Pellia, Anthoceros, Sphagnum, Funaria
5. Pteridophyta: Lycopodium, Selaginella, Equisetum, Marsilea.
6. Gymnosperm: Cycas, Pinus, Ephedra.

PRACTICAL SCHEME

TIME: 4 Hrs.

M.M. : 50

1. Algae/Fungi/Gram Staining	10
2. Bryophyta/Pteridophyta	10
3. Gymnosperm	10
4. Spotting	10
5. Viva-Voce	05
6. Sessional	05

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Govt. Bilasa Girls College, Bilaspur

(Mr. Shivakant Mishra)

(Mr. Sudheer Tiwari)

MICROBIOLOGY

BSc-1st

Paper- I: General Microbiology & Basic Technique

UNIT-1: Fundamental, History & Developments

Introduction to major groups of microorganisms and fields of Microbiology; Historical development; Contributions of Pioneers (Louis Pasteur, Edward Jenner, Anton Von Leeuwenhoek and Alexander Fleming); Beneficial and harmful microbes and its role in daily life.

UNIT-2: Basic Microbial Techniques

Methods of studying microorganism; Sterilization Techniques (Physical & Chemical Sterilization); Pure culture isolation Technique: Streaking, Waksman serial dilution and plating methods; cultivation, maintenance and preservation of pure cultures; Culture media & conditions for microbial growth; Staining technique: simple staining, Differential (gram staining), negative staining and acid fast staining.

UNIT-3: Virology & Bacteriology

Diversity of microbial world; Principle and classification of Viruses and Bacteria; Structure, Multiplication and Economic importance of viruses (TMV, Influenza virus & T₂-Phage); Structure & Functional organization of Bacteria; Cell wall of Gram Positive & Gram Negative bacteria; Economic importance of Bacteria.

UNIT-4: Mycology

General characteristics and classification of Fungi; Structure and Reproduction of fungi (*Rhizopus*, *Penicillium*, *Aspergillus*, *Yeast* & *Agaricus*); Common fungal disease of crops (Late & Early blight of potato, Smut of Rice, Tikka and Red rot of Sugarcane); Structure, reproduction and economic aspect of Lichens.

UNIT-5: Phycology & Protozoology

General characteristics and classification of Algae and Protozoa; General account & economic importance of Cyanobacteria (*Microcystis*, *Oscillatoria*, *Nostoc* & *Anabaena*) and Protozoa (*Amoeba*, *Paramecium*, *Euglena* and *Plasmodium*).

Oscillatoria

Text Books Recommended:

1. General microbiology; Vol 1 & II, Powar C. B. and Dagainawala H.L., Himalaypub.house, Bombay.
2. A textbook of Microbiology; Dubey & Maheshwari.
3. Microbiology; An Introduction; G. Tortora, B. Funke, C. Benjamin Cummings.
4. General Microbiology; Seventh edition by Hans G Schlegel, Cambridge University Press.
5. Practical Microbiology; Dubey and Maheshwari.
6. Handbook of Microbiology; Bisen P.S., Varma K., CBS Publishers and Distributors, Delhi. General Microbiology by Brock.
7. General Microbiology by Pelzar et al.
8. Introduction on Microbial Techniques by Gunasekaran.

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Paper- II: Biochemistry and Physiology

UNIT-1: CARBOHYDRATES AND PROTEINS

Structure, classification and properties of Carbohydrates – Monosaccharide, Oligosaccharides (Disaccharides) and Polysaccharides. Structure, classification and properties of Protein - Amino acids, peptides and Proteins (Primary, Secondary, Tertiary and Quaternary structure).

UNIT-2: LIPIDS AND NUCLEIC ACIDS

Structure, classification and properties of Lipids: Saturated and Unsaturated fatty acids. Structure and properties of Nucleotides. Structure and forms of DNA: Replication of DNA. Types, Structure and Function of RNA.

UNIT-3: ENZYMES

Structure, Nomenclature, Classification and Properties of Enzymes. Mechanism of enzyme action, Enzyme kinetic: Michaelis-Menten Equation & derivation, Enzyme inhibition, Lineweaver-Burk Plot (LB plot), Co-enzymes and their role; Allosteric enzymes and Isoenzyme. Extracellular enzymes and their role.

UNIT-4: MICROBIAL METABOLISM

Bacterial photosynthesis and Chemosynthesis; Glycolysis, TCA cycle and Oxidative Phosphorylation. Anaerobic catabolism of glucose; Fat Biosynthesis, alpha and beta oxidation of fatty acids; Deamination, trans-amination and Urea cycle.

UNIT-5: GROWTH PHYSIOLOGY & TRANSPORT SYSTEM

Bacterial cell division, Genome replication and Growth Phases, Conditions for growth. Plasma membrane & Transport system, types of transport (Passive and active). Diffusion (simple & facilitated), Concept of Uniport, Antiport and Symport;

Text Books Recommended:

1. General Biochemistry by A.C. Deh.
2. Biochemistry by Lehninger (Kalyani publication)
3. Biochemistry by U. Satyanarayan.
4. Microbiology by Anantanarayan and Paniker.
5. Fundamentals of Biochemistry, J I. Jain, Sunjay Jain, Nitin Jain; S. Chaud & Company Ltd
6. Practical Biochemistry: Principles and Techniques: 5th Edition; Keith Wilson and John Walker
7. Biophysical Biochemistry: Principles and Techniques; Avinash Upadhyay, Kakoli Upadhyay and Nirmalendu Nath; Himalaya Publishing House.

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PRACTICAL

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- Basic information about autoclave, hot air oven, laminar air flow and other laboratory instruments.
 Preparation of solid/liquid culture media.
 Isolation of single colonies on solid media.
 Enumeration of bacterial numbers by serial dilution and plating.
 Simple and differential staining.
 Measurement of microorganism (micrometry) and camera Lucida drawing of isolated organism.
 Determination of bacterial growth by optical density measurement.
 General and specific qualitative test for carbohydrates.
 General and specific qualitative test for amino acids.
 General and specific qualitative test for lipids.
 Estimation of protein.
 Estimation of blood glucose.
 Assay of the activity of amylases.
 Assay of the activity of Phosphates.
-

Scheme of Practical Examination

Time - 4 hours

M.M. 50

- | | |
|--|----|
| 1. Exercise on Microbiological methods | 10 |
| 2. Exercise on Biochemical tests | 10 |
| 3. Exercise on staining method | 05 |
| 4. Spotting (1-5) | 10 |
| 5. Viva-Voce | 05 |
| 6. Sessional | 10 |

Total 50

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Part - I

SYLLABUS FOR ENVIRONMENTAL STUDIES AND HUMAN RIGHTS

(Papercode-0828)

MM. 75

इन्वारमेंटल साईसे के पाठ्यक्रम को स्नातक स्तर भाग-एक की कक्षाओं में विश्वविद्यालय अनुदान आयोग के निर्देशानुसार अनिवार्य रूप से शिक्षा सत्र 2003-2004 (परीक्षा 2004) से प्रभावशील किया गया है। स्वशासी महाविद्यालयों द्वारा भी अनिवार्य रूप से अंगीकृत किया जाएगा।

भाग 1, 2 एवं 3 में से किसी भी वर्ष में पर्यावरण प्रश्न-पत्र उत्तीर्ण करना अनिवार्य है। तभी उपाधि प्रदाय योग्य होगी।

पाठ्यक्रम 100 अंकों का होगा, जिसमें से 75 अंक सैद्धांतिक प्रश्नों पर होंगे एवं 25 अंक क्षेत्रीय कार्य (Field Work) पर्यावरण पर होंगे।

सैद्धांतिक प्रश्नों पर अंक - 75 (सभी प्रश्न इकाई आधार पर रहेंगे जिसमें विकल्प रहेगा)

- | | | |
|----------------------|---|--------|
| (अ) लघु प्रश्नोंत्तर | - | 25 अंक |
| (ब) निबंधात्मक | - | 50 अंक |

Field Work- 25 अंकों का मूल्यांकन आंतरिक मूल्यांकन पद्धति से कर विश्वविद्यालय को प्रेषित किया जावेगा। अभिलेखों की प्रायोगिक उत्तर पुस्तिकाओं के समान संबंधित महाविद्यालयों द्वारा सुरक्षित रखेंगे।

उपरोक्त पाठ्यक्रम से संबंधित परीक्षा का आयोजन वार्षिक परीक्षा के साथ किया जाएगा।

पर्यावरण विज्ञान विषय अनिवार्य विषय है, जिसमें अनुत्तीर्ण होने पर स्नातक स्तर भाग-एक के छात्र/छात्राओं को एक अन्य विषय के साथ पूरक की पात्रता होगी। पर्यावरण विज्ञान के

सैद्धांतिक एवं फील्ड वर्क के संयुक्त रूप से 33: (तीस प्रतिशत) अंक उत्तीर्ण होने के लिए अनिवार्य होंगे।

स्नातक स्तर भाग-एक के समस्त नियमित/भूतपूर्व/अमहाविद्यालयीन छात्र/छात्राओं को अपना फील्ड वर्क सैद्धांतिक परीक्षा की समाप्ति के पश्चात् 10 (दस) दिनों के भीतर संबंधित महाविद्यालय/परीक्षा केन्द्र में जमा करेंगे एवं महाविद्यालय के प्राचार्य/केन्द्र अधीक्षक, परीक्षकों की नियुक्ति के लिए अधिकृत रहेंगे तथा फील्ड वर्क जमा होने के सात दिनों के भीतर प्राप्त अंक विश्वविद्यालय को भेजेंगे।

UNIT-I THE MULTI DISCIPLINARY NATURE OF ENVIRONMENTAL STUDIES

Definition, Scope and

Importance Natural Resources:

Renewable and Nonrenewable Resources

- (a) Forest resources: Use and over-exploitation, deforestation, Timber extraction, mining, dams and their effects on forests and tribal people and relevant forest Act.
- (b) Water resources: Use and over-utilization of surface and ground water, floods drought, conflicts over water, dam's benefits and problems and relevant Act.
- (c) Mineral resources: Use and exploitation, environmental effects of extracting and using mineral resources.
- (d) food resources: World food problems, changes caused by agriculture and overgrazing, effects of modern agriculture, fertilizer-pesticide problems, water logging, salinity.
- (e) Energy resources: Growing energy needs, renewable and non-renewable energy sources, use of alternate energy sources.
- (f) Land resources: Land as a resource, land degradation, man induced landslides soil erosion and desertification.

(12 Lecture)

UNIT-II ECOSYSTEM

(a) Concept, Structure and Function of an ecosystem

- Producers, consumers and decomposers.
- Energy flow in the ecosystem
- Ecological succession
- Food chains, food webs and ecological pyramids.
- Introduction, Types, Characteristics Features, Structure and Function of Forest, Grass, Desert and Aquatic Ecosystem.

(b) Biodiversity and its Conservation

- Introduction - Definition: genetic, species and ecosystem diversity
- Bio-geographical classification of India.
- Value of biodiversity: Consumptive use, productive use, social ethics, aesthetic and option
- Biodiversity at global, National and local levels.
- India as mega-diversity nation.
- Hot spots of biodiversity.
- Threats to biodiversity: habitat loss, poaching of wildlife, man-wild life conflict.
- Endangered and endemic species of India.
- Conservation of biodiversity: In situ and Ex-situ conservation of biodiversity.

(12Lecture)

UNIT- III

(a) Causes, effect and control measures of

- Air water, soil, marine, noise, nuclear pollution and Human population.
- Solid waste management: Causes, effects and control measures of urban and industrial wastes.
- Role of an individual in prevention of pollution.
- Disaster Management: floods, earthquake, cyclone and landslides.

(12Lecture)

(b) Environmental Management

- From Unsustainable to sustainable development.
- Urban problems related to energy.
- Water conservation, rain water harvesting, watershed management.
- Resettlement and rehabilitation of people, its problems and concerns.
- Environmental ethics: Issues and possible solutions.
- Climate change, global warming, acid rain, ozone layer depletion, nuclear accidents and holocaust.
- Wasteland reclamation.
- Environment protection Act: Issues involved in enforcement of environmental legislation.
- Role of Information Technology in Environment and Human Health.

UNIT- IV

General background and historical perspective- Historical development and concept of Human Rights, Meaning and definition of Human Rights, Kind and Classification of Human Rights. Protection of Human Rights under the UNO Charter, protection of Human Rights under the Universal Declaration of Human Rights, 1948. Convention on the Elimination of all forms of Discrimination against women. Convention on the Rights of the Child, 1989.

UNIT-V

Impact of Human Rights norms in India, Human Rights under the Constitution of India, Fundamental Rights under the Constitution of India, Directive Principles of State policy under the Constitution of India, Enforcement of Human Rights in India.

Protection of Human Rights under the Human Rights Act, 1993- National Human Rights Commission, State Human Rights Commission and Human Rights court in India. Fundamental Duties under the Constitution of India.

Reference/ Books Recommended

1. SK Kapoor- Human rights under International Law and Indian Law.
2. HO Agrawal- International Law and Human Rights
3. एन.के. कपूर -मानव अधिकार
4. जे.एन. पान्डेय - भारत का संविधान
5. एन.टी. चतुर्वेदी - भारत का संविधान
6. J.N.Pandey - Constitutional Law of India
7. Agarwal K.C. 2001 Environmental Biology, Nidi pub. Ltd. Bikaner
8. Bharucha Erach, the Biodiversity of India, Mapin pub. Ltd. Ahmedabad 380013, India, Email: mapin@icenet.net(R)
9. Brunner R.C. 1989, Hazardous Waste Incineration. McGraw Hill Inc. 480p
10. Clark R.S. Marine pollution, Clarendon press Oxford (TB)
11. Cuninghame, W.P. Cooper. T.H. Gothani, E & Hepworth, M.T. 200
12. Dr. A.K. - Environmental Chemistry. Wiley Eastern Ltd.
13. Down to Earth, Center for Science and Environment (R)
14. Gloick, H.P. 1993 Water in crisis pacific institute for studies in Deve, Environment & Security. Stockholm Eng. Institute. Oxford University, Press. m473p.
15. Hawkins R.E. Encyclopedia of Indian Natural History, Bombay Natural History Society, Mumbai (R)
16. Heywood, V.H. & Watson, T.T. 1995 Global Biodiversity Assessment. Cambridge Univ. Press 1140p
17. Jadhav H. & Bhosale, V.H. 1995 Environmental Protection and Law. Himalaya pub. House, Delhi 284p
18. McKinney M.L. & School R.M. 1996, environmental Science systems & solutions, web enhanced edition, 635
19. Mhadkar A.K. Matter Hazardous, Techno-Science publication (TB)
20. Miller T.G. Jr. Environment Science, Wadsworth publication co. (TB)
21. Odum E.P. 1971, Fundamentals of Ecology, W.B. Saunders Co. USA, 574p
22. Rao M.N. & Datta, A.K. 1987, Waste water treatment. Oxford & IBH pub. co. Pvt. Ltd 345p
23. Sharma B.K. 2001, Environmental chemistry, Goel pub. House, Meerut
24. Survey of the Environment, The Hindu (M)
25. Townsend C. Harper J. And Michael Begon, Essentials of Ecology, Blackwell Science (TB)
26. Trivedi R.K. Handbook of Environment Laws, Rules, Guidelines, Compliances and Standards, Vol land II, Environment Media (R)
27. Trivedi R.K. and P.K. Goel, Introduction to air pollution, Techno-Science publication (TB)
28. Wanger K.D. 1998, Environmental Management. W.B. Saunders Co. Philadelphia, USA 499p



हेमचंद्र यादव विश्वविद्यालय, दुर्ग (छ.ग.)

(पूर्व नाम- दुर्ग विश्वविद्यालय, दुर्ग)

रायपुर नाका दुर्ग (छ.ग.)-491001

ई मेल : academic@durguniversity.ac.in

वेब साइट : www.durguniversity.ac.in

दूरभाष : 0788-2359400

क्र. 2960/A / अका./2020

दुर्ग, दिनांक 10/9/2020

प्रति,

प्राचार्य,
समस्त संयुक्त महाविद्यालय,
हेमचंद्र यादव विश्वविद्यालय,
दुर्ग (छ.ग.)

विषय:- स्नातक स्तर भाग-दो के पाठ्यक्रम विषयक।

संदर्भ:- संयुक्त संचालक, उच्च शिक्षा विभाग के पत्र क्र. 2456/315/आउशि/सम/2019, दिनांक 16.05.2019।

—00—

विषयांतर्गत लेख है कि संदर्भित पत्र के माध्यम से प्राप्त स्नातक स्तर भाग-दो के निम्नलिखित कक्षा/विषयों के परिवर्तित/संशोधित पाठ्यक्रम शिक्षा सत्र 2020-21 से लागू किये जाते हैं:-

1. बी.ए. - आधार पाठ्यक्रम-हिन्दी भाषा, हिन्दी साहित्य, राजनीतिशास्त्र, अर्थशास्त्र, नृत्य, दर्शनशास्त्र, समाजशास्त्र, इतिहास, मानवविज्ञान, संस्कृत, सांख्यिकी प्राचीन भारतीय इतिहास, भूगोल, मनोविज्ञान
2. बी.एस.-सी.- आधार पाठ्यक्रम-हिन्दी भाषा, जीव विज्ञान, मानवविज्ञान, बायोटेक्नोलॉजी, कम्प्यूटर साइंस, गणित, भौतिक शास्त्र, प्राणीशास्त्र, सूक्ष्मजीव विज्ञान, वनस्पतिशास्त्र, भूविज्ञान, इलेक्ट्रॉनिक्स, रसायन शास्त्र, सांख्यिकी, भूगोल।
3. बी.ए./बी.एस.सी (गृह विज्ञान) - आधार पाठ्यक्रम - हिन्दी भाषा एवं गृह विज्ञान।

उपरोक्त विषयों को शिक्षा सत्र 2020-21 से संशोधित रूप में स्नातक स्तर भाग-दो के लिए लागू किया जाता है स्नातक स्तर भाग-एक हेतु सत्र 2019-20 में लागू पाठ्यक्रम मान्य होंगे एवं भाग - तीन के पाठ्यक्रम यथावत रहेंगे।

टीप:- परिवर्तित/संशोधित पाठ्यक्रम विश्वविद्यालय के परीक्षा विभाग एवं वेबसाइट पर प्रकाशित करने हेतु वेबसाइट प्रभारी को उपलब्ध करा दी गई है।

कुलसचिव

दुर्ग, दिनांक 10/9/2020

क्र. 2961/A / अका./2020

प्रतिलिपि:-

1. संयुक्त संचालक, उच्च शिक्षा विभाग के पत्र क्र. 2456/315/आउशि/सम/2019, दिनांक 16.05.2019 परिपेक्ष्य में सूचनाार्थ।
2. उपकुलसचिव, परीक्षा विभाग एवं उपकुलसचिव, गोपनीय विभाग हेमचंद्र यादव विश्वविद्यालय, दुर्ग।
3. कुलपति के निज सहायक एवं कुलसचिव के निज सहायक, हेमचंद्र यादव विश्वविद्यालय, दुर्ग।

सहा. कुलसचिव (अका.)

संशोधित पाठ्यक्रम
बी.ए./बी.एस-सी./बी.कॉम./बी.एच.एस.-सी.
भाग - दो, आधार पाठ्यक्रम
प्रश्न पत्र - प्रथम (हिन्दी भाषा) (पेपर कोड - 0171)

पूर्णांक- 75

खण्ड - क निम्नलिखित 5 लेखकों के पाठ शामिल होंगे - अंक-35

- | | | |
|------------------------|---|--------------------------|
| 1. महात्मा गांधी | - | चोरी और प्रायश्चित |
| 2. आचार्य नरेंद्र देव | - | युवकों का समाज में स्थान |
| 3. वासुदेव शरण अग्रवाल | - | मातृभूमि |
| 4. हरि ठाकुर | - | डॉ. खूबचंद बघेल |
| 5. पं. माधवराव सप्रे | - | सम्भाषण-कुशलता |

खण्ड-ख हिन्दी भाषा और उसके विविध रूप अंक-16

1. कार्यालयीन भाषा
2. मीडिया की भाषा
3. वित्त एवं वाणिज्य की भाषा
4. मशीनी भाषा

खण्ड-ग हिन्दी की व्याकरणिक कोटियाँ अंक-24

संज्ञा, सर्वनाम, विशेषण, क्रिया विशेषण,
समास, संधि एवं संक्षिप्तियाँ
अनुवाद व्यवहार : अंग्रेजी से हिन्दी में अनुवाद

इकाई विभाजन-

- | | |
|---------|---|
| इकाई- 1 | चोरी और प्रायश्चित : महात्मा गांधी / कार्यालयीन भाषा, मीडिया की भाषा |
| इकाई- 2 | युवकों का समाज में स्थान : आचार्य नरेंद्र देव / वित्त एवं वाणिज्य की भाषा, मशीनी भाषा |
| इकाई- 3 | मातृभूमि: वासुदेवशरण अग्रवाल / संज्ञा सर्वनाम, विशेषण, क्रिया विशेषण |
| इकाई- 4 | डॉ. खूबचंद बघेल : हरि ठाकुर/समास, संधि. |
| इकाई- 5 | सम्भाषण-कुशलता : पं. माधवराव सप्रे, / अनुवाद - अंग्रेजी से हिन्दी में अनुवाद, संक्षिप्तियाँ |

मूल्यांकन योजना -

प्रत्येक इकाई से एक-एक प्रश्न पूछे जाएंगे। प्रत्येक प्रश्न में आंतरिक विकल्प होगा। प्रत्येक प्रश्न के 15 अंक होंगे। प्रत्येक इकाई को दो-दो खण्डों (कमश' 'क' और 'ख' में) विभक्त करते हुए निर्धारित पाठ से 8 एवं शेष पाठ्य सामग्री से 7 अंक के प्रश्न होंगे। इस प्रकार पूरे प्रश्न-पत्र के पूर्णांक 75 होंगे।

पाठ्यक्रम संशोधन का औचित्य : विद्यार्थी चर्चित एवं सुप्रसिद्ध व्यक्तियों के लेख के माध्यम से समाज एवं राष्ट्रहित के साथ-साथ व्यक्तित्व विकास विषयक मुद्दों से परिचित हो सके तथा व्याकरणक एवं भाषा विषयक प्रस्तावित पाठ्यक्रम के माध्यम से हिन्दी भाषा संबंधित प्रयोग पक्ष से परिचित होते हुए प्रतियोगी परीक्षाओं की दृष्टि से ज्ञानार्जन कर सकें।

ENGLISH LANGUAGE (Paper Code-1132)

B.A. / B.Sc. /B.COM. /B.H. Sc. -II

M.M.75

The question paper for B.A. /B.Sc./B.Com./B.H.Sc., English Language and cultural values shall comprise the following units:

UNIT-I	Short answer questions to be passed by (Five short answer questions of three marks each)	15 Marks
UNIT-II	(a) Reading comprehension of an unseen passage (b) Vocabulary	05 Marks
UNIT-III	Report-Writing	10 Marks
UNIT-IV	Expansion of an idea	10 Marks
UNIT-V	Grammar and Vocabulary based on the prescribed text book.	20+15Marks

Note: Question on all the units shall asked from the prescribed text which will Comprise Specimens of popular creative/writing and the following it any

- a Matter & technology
 - i. State of matter and its structure
 - ii. Technology (Electronics Communication, Space Science)
- b Our Scientists & Institutions
 - i. Life & work of our eminent scientist Arya Bhatt, Kaard Charak Shusruta, Nagarjuna, J.C. Bose and C.V. Raman, S. Rmanujam, Homi J. Babha Birbal Sahani.
 - ii. Indian Scientific Institutions (Ancient & Modern)

Books Prescribed:

Foundation English for U.G. Second Year - Published by M.P. Hindi Granth Academy, Bhopal.



HEMCHAND YADAV VISHWAVIDYALAYA, DURG (C.G.)
NEW CURRICULUM OF B.Sc. PART II
SESSION 2019-20
CHEMISTRY

The new curriculum will comprise of three papers of 33, 33 and 34 marks each and practical work of 50 marks. The Curriculum is to be completed in 180 working days as per UGC norms and conforming to the directives of Govt. of Chhattisgarh. The theory papers are of 60 hrs. each duration and practical work of 180 hrs duration.

Paper – I
INORGANIC CHEMISTRY **60 Hrs., Max Marks 33**

UNIT-I

CHEMISTRY OF TRANSITION SERIES ELEMENTS

Transition Elements: Position in periodic table, electronic configuration, General Characteristics, viz., atomic and ionic radii, variable oxidation states, ability to form complexes, formation of coloured ions, magnetic moment μ_{∞} (spin only) and μ_{eff} and catalytic behaviour. General comparative treatment of 4d and 5d elements with their 3d analogues with respect to ionic radii, oxidation states and magnetic properties.

UNIT-II

A. OXIDATION AND REDUCTION: Redox potential, electrochemical series and its applications, Principles involved in extraction of the elements.

B. COORDINATION COMPOUNDS: Werner's theory and its experimental verification, IUPAC nomenclature of coordination compounds, isomerism in coordination compounds. Stereochemistry of complexes with 4 and 6 coordination numbers. Chelates, polynuclear complexes.

UNIT-III

COORDINATION CHEMISTRY

Valence bond theory (inner and outer orbital complexes), electroneutrality principle and back bonding. Crystal field theory, Crystal field splitting and stabilization energy, measurement of $10 Dq$ (Δ_o), CFSE in weak and strong fields, pairing energies, factors affecting the magnitude of $10 Dq$ (Δ_o , Δ_t). Octahedral vs. tetrahedral coordination,

B.Sc.-II

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24.6.2019

Bhaskar
24.6.19

Nalsi

S. S. S. S.

K. K. K. K.

UNIT-IV

A. CHEMISTRY OF LANTHANIDE ELEMENTS

Electronic structure, oxidation states and ionic radii and lanthanide contraction, complex formation, occurrence and isolation, lanthanide compounds.

B. CHEMISTRY OF ACTINIDES

General features and chemistry of actinides, chemistry of separation of Np, Pu and Am from uranium, similarities between the latter actinides and the latter lanthanides

UNIT-V

A. ACIDS BASES : Arrhenius, Bronsted-Lowry, conjugate acids and bases, relative strengths of acids and bases, the Lux-flood, Solvent system and Lewis concepts of acids and bases:

B. NON-AQUEOUS SOLVENTS

Physical properties of a solvent, types of solvents and their general characteristics, reaction in non-aqueous solvents with reference to liquid ammonia and liquid sulphur dioxide, HF, H₂SO₄, Ionic liquids.

REFERENCE BOOKS

1. Basic Inorganic Chemistry, F. A. Cotton, G. Wilkinson and P. L. Gaus, Wiley
2. Concise Inorganic Chemistry, J. D. Lee, ELBS
3. Concepts of Models of Inorganic Chemistry, B. Douglas, D. Mc Daniel and J. Alexander, John Wiley.
4. Inorganic Chemistry, D. E. Shriver, P. W. Atkins and C. H. Langford, Oxford.
5. Inorganic Chemistry, W. W. Porterfield, Addison – Wiley.
6. Inorganic Chemistry, A. G. Sharp, ELBS.
7. Inorganic Chemistry, G. L. Miessler and D. A. Tarr, Prentice Hall.
8. Advanced Inorganic Chemistry, Satya Prakash.
9. Advanced Inorganic Chemistry, Agarwal and Agarwal
10. Advanced Inorganic Chemistry, Puri, Sharma, S. Naginchand
11. Inorganic Chemistry, Madan, S. Chand
12. Aadhunik Akarbanic Rasayan, A. K. Shrivastav & P. C. Jain, Goel Pub
13. Uchchattar Akarbanic Rasayan, satya Prakash & G. D. Tuli, Shyamal Prakashan
14. Uchchattar Akarbanic Rasayan, Puri & Sharma
15. Selected topic in Inorganic Chemistry by Madan Malik & Tuli, S. Chand.

B.Sc-II

Done
20.6.2015

Director
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W. J. Khanna

UNIT-I

CHEMISTRY OF ORGANIC HALIDES

Alkyl halides; Methods of preparation, nucleophilic substitution reactions - S_N1 , S_N2 and S_N1' mechanisms with stereochemical aspects and effect of solvent etc.; nucleophilic substitution, elimination reactions.

Aryl halides; Preparation, including preparation from diazonium salts, Nucleophilic Aromatic Substitution; S_NAr , Benzyne mechanism. Relative reactivity of alkyl, allyl/benzyl, vinyl and aryl halides towards nucleophilic substitution reactions.

UNIT-II

ALCOHOLS

A. Alcohols: Nomenclature, preparation, properties and relative reactivity of 1° , 2° , 3° alcohols, Bouvaelt-Blanc Reduction for the preparation of alcohols, Dihydric alcohols - methods of formation, chemical reactions of vicinal glycols; oxidative cleavage [$Pb(OAc)_4$ and HIO_4] and pinacol-pinacolone rearrangement.

B. Trihydric alcohols - Nomenclature, methods of formation, chemical reactions of glycerol.

PHENOLS

A. Structure and bonding in phenols, physical properties and acidic character, Comparative acidic strength of alcohols and phenols, acylation and carboxylation.

B. Mechanism of Fries rearrangement, Claisen rearrangement, Gatterman synthesis, Hauben-Hoesch reaction, Lederer-Manasse reaction and Reimer-Tiemann reaction.

UNIT-III

ALDEHYDES AND KETONES

A. Nomenclature, structure and reactivity of carbonyl group. General methods of preparation of aldehydes and ketones.

Mechanism of nucleophilic addition to carbonyl groups: Benzoin, Aldol, Perkin and Knoevenagel condensation. Condensation with ammonia and its derivatives, Wittig reaction, Mannich reaction, Beckmann and Benzil-Benzilic rearrangement.

B. Use of acetate as protecting group, Oxidation of aldehydes, Baeyer-Villiger oxidation of ketones, Cannizzaro reaction, MPV, Clemmensen reduction, Wolf-Kishner reaction, $LiAlH_4$ and $NaBH_4$ reduction. Halogenation of enolizable ketones, An introduction to α,β -unsaturated aldehydes and ketones.

B.Sc.-II

Asmi
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Nals

P. Prakash

V. J. Kumar

UNIT-IV

A. CARBOXYLIC ACIDS

Preparation, Structure and bonding, Physical and chemical properties including, acidity of carboxylic acids, effects of substituents on acid strength, Hell-Volhard Zeilinsky reaction. Reduction of carboxylic groups, Mechanism of decarboxylation. Di carboxylic acids: Methods of formation and effect of heat and dehydrating agents, Hydroxyacids.

B. CARBOXYLIC ACID DERIVATIVES

Structure of acid chlorides, esters, amides and acid anhydrides, Relative stability of acyl derivatives. Physical properties, inter-conversion of acid derivatives by nucleophilic acyl substitution. Mechanism of acid and base catalyzed esterification and hydrolysis.

UNIT-V

ORGANIC COMPOUNDS OF NITROGEN

- A. Preparation of nitroalkanes and nitroarenes. Chemical reactions of nitroalkanes. Mechanism of nucleophilic substitution in nitroarenes and their reduction in acidic, neutral and alkaline medium.
- B. Reactivity, structure and nomenclature of amines, physical properties. Stereochemistry of amines. Separation of mixture of primary, secondary and tertiary amines. Structural features affecting basicity of amines. Preparation of alkyl and aryl amines (reduction of nitro compounds and nitriles), reductive amination of aldehydic and ketonic compounds. Gabriel-Phthalimide reaction, Hofmann-Bromamide reaction, Reactions of amines, electrophilic aromatic substitution of aryl amines, Reaction of amines with nitrous acid. Synthetic transformations of aryl diazonium salts, Azo coupling.

REFERENCE BOOKS

1. Organic Chemistry, Morrison and Boyd, Prentice-Hall.
2. Organic Chemistry, L. G. Wade Jr. Prentice Hall.
3. Fundamentals of Organic Chemistry, Solomons, John Wiley.
4. Organic Chemistry, Vol I, II, III S. M. Mukherjee, S. P. Singh and R. P. Kapoor, Wiley Easters (New Age).
5. Organic Chemistry, F. A. Carey, McGraw Hill.
6. Introduction to Organic Chemistry, Struweiasser, Heathcock and Kosover, Macmillan.
7. Organic Chemistry, P. L. Soni.
8. Organic Chemistry, Bahl and Bahl.
9. Organic Chemistry, Joginder Singh.
10. Carbanic Rasayan, Bahl and Bahl.
11. Carbanic Rasayan, R. N. Singh, S. M. I. Gupta, M. M. Bakidia & S. K. Wadhwa.
12. Carbanic Rasayan, Joginder Singh.

B.Sc.-II

Chauhan
20.6.2015

Divyanshu
24.6.13

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V. K. Sharma

UNIT-I

A. THERMODYNAMICS-I

Intensive and extensive variables; state and path functions; isolated, closed and open systems; Zeroth law of thermodynamics. First law: Concept of heat, work, internal energy and statement of first law; enthalpy, Relation between heat capacities, calculations of q , w , U and H for reversible, irreversible and free expansion of gases under isothermal and adiabatic conditions. Joule-Thomson expansion, inversion temperature of gases, expansion of ideal gases under isothermal and adiabatic condition

B. THERMO CHEMISTRY

Thermochemistry, Laws of Thermochemistry, Heats of reactions, standard states; enthalpy of formation of molecules and ions and enthalpy of combustion and its applications; calculation of bond energy, bond dissociation energy and resonance energy from thermochemical data, effect of temperature (Kirchhoff's equations) and pressure on enthalpy of reactions, Adiabatic flame temperature, explosion temperature.

UNIT-II

A. THERMODYNAMICS-II

Second Law of Thermodynamics: Spontaneous process, Second law, Statement of Carnot cycle and efficiency of heat engine, Carnot's theorem, thermodynamic state of temperature. Concept of entropy: Entropy change in a reversible and irreversible process, entropy change in isothermal reversible expansion of an ideal gas, entropy change in isothermal mixing of ideal gases, physical signification of entropy, Molecular and statistical interpretation of entropy.

B. Gibbs and Helmholtz free energy, variation of G and A with pressure, volume, temperature, Gibbs-Helmholtz equation, Maxwell relations, Elementary idea of Third law of Thermodynamics, concept of residual entropy, calculation of absolute entropy of molecule.

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UNIT III

A CHEMICAL EQUILIBRIUM

Criteria of thermodynamic equilibrium, degree of advancement of reaction, chemical equilibria in ideal gases. Concept of Fugacity, Thermodynamic derivation of relation between Gibbs free energy of reaction and reaction quotient. Coupling of exergonic and endergonic reactions. Equilibrium constants and their quantitative dependence on temperature, pressure and concentration. Thermodynamic derivation of relations between the various equilibrium constants K_p , K_c and K_x . Le Chatelier principle (quantitative treatment). Equilibrium between ideal gas and a pure condensed phase.

B IONIC EQUILIBRIA

Ionization of weak acids and bases, pH scale, common ion effect; dissociation constants of mono protic acids (exact treatment). Salt hydrolysis-calculation of hydrolysis constant, degree of hydrolysis and pH for different salts. Buffer solutions; derivation of Henderson equation and its applications. Solubility and solubility product of sparingly soluble salts – applications of solubility product principle.

UNIT-IV

PHASE EQUILIBRIUM

A. Phase rule, Phase, component and degree of freedom, derivation of Gibbs phase rule, Clausius-Claperon equation and its applications to Solid-Liquid, Liquid-Vapor and Solid-Vapor, limitation of phase rule, applications of phase rule to one component system: Water system and sulphur system.

Application of phase rule to two component system: Pb-Ag system, desilverization of lead, Zn-Mg system, Ferric chloride-water system, congruent and incongruent melting point and eutectic point.

Three component system: Solid solution liquid pairs.

B. Nernst distribution law, Henry's law, application, solvent extraction

B.Sc.-II

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20.6.2015

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UNIT V

PHOTOCHEMISTRY

Characteristics of electromagnetic radiation, Interaction of radiation with matter, difference between thermal and photochemical processes, Lambert-Beer's law and its limitations, physical significance of absorption coefficients. Laws of photochemistry: Grothus-Draper law, Stark-Einstein law, quantum yield, actinometry, examples of low and high quantum yields, Photochemical equilibrium and the differential rate of photochemical reactions, Quenching, Role of photochemical reaction in biochemical process.

Jablonski diagram depicting various process occurring in the excited state, qualitative description of fluorescence, phosphorescence, non-radiative processes (internal conversion, intersystem crossing), photosensitized reactions, energy transfer processes (simple examples), photostationary states, Chemiluminescence.

REFERENCE BOOKS

1. Physical Chemistry, G. M. Barrow, International student edition, McGraw Hill.
2. University General Chemistry, C. N. R. Rao, Macmillan.
3. Physical Chemistry, R. A. Alberty, Wiley Eastern.
4. The elements of physical chemistry, Wiley Eastern.
5. Physical Chemistry through problems, S. K. Dogra & S. Dogra, Wiley Eastern.
6. Physical Chemistry, B. D. Khosla,.
7. Physical Chemistry, Puri & Sharma.
8. Bhautik Rasayan, Puri, Sharma and Pathania, Vishal Publishing Company.
9. Bhautik Rasayan, P. L. Soni.
10. Bhautik Rasayan, Bahil and Tuli.
11. Physical Chemistry, R. L. Kapoor, Vol I-IV .
12. Chemical kinetics, K. J. Laidler, Pearson Educations, New Delhi (2004).

B.Sc.-II

BAJAN
20.6.2019

Divyanshu
24.6.19

Neha

Pranav

Vijay

LABORATORY COURSE

INORGANIC CHEMISTRY

Qualitative semimicro analysis of mixtures containing 5 radicals. Emphasis should be given to the understanding of the chemistry of different reactions. The following radicals are suggested:

CO_3^{2-} , NO_2^- , S^{2-} , SO_3^{2-} , $\text{S}_2\text{O}_3^{2-}$, CH_3COO^- , F^- , Cl^- , Br^- , I^- , NO_3^- , BO_3^{3-} , $\text{C}_2\text{O}_4^{2-}$, PO_4^{3-} , NH_4^+ , K^+ , Pb^{2+} , Cu^{2+} , Cd^{2+} , Bi^{3+} , Sn^{2+} , Sb^{3+} , Fe^{3+} , Al^{3+} , Cr^{3+} , Zn^{2+} , Mn^{2+} , Co^{2+} , Ni^{2+} , Ba^{2+} , Sr^{2+} , Ca^{2+} , Mg^{2+} .

Mixtures should preferably contain one interfering anion, or insoluble component (BaSO_4 , SrSO_4 , PbSO_4 , CaF_2 or Al_2O_3) or combination of anions e.g. CO_3^{2-} and SO_3^{2-} , NO_2^- and NO_3^- , Cl^- , Br^- , and I^- .

Volumetric analysis

- Determination of acetic acid in commercial vinegar using NaOH .
 - Determination of alkali content-antacid tablet using HCl .
 - Estimation of calcium content in chalk as calcium oxalate by permanganometry.
 - Estimation of hardness of water by EDTA .
 - Estimation of ferrous & ferric by dichromate method.
 - Estimation of copper using thiosulphate.
- Principles involved in chromatographic separations. Paper chromatographic separation of following metal ions: i. Ni (II) and Co (II) ii. Fe (III) and Al (III)

ORGANIC CHEMISTRY

- Detection of elements (X, N, S).
- Qualitative analysis of unknown organic compounds containing simple functional groups (alcohols, carboxylic acids, phenols, nitro, amine, amide, and carbonyl compounds, carbohydrates)
- Preparation of Organic Compounds:
 - m-dinitrobenzene, (ii) Acetanilide, (iii) Bromo/Nitro-acetanilide, (iv) Oxidation of primary alcohols-Benzoic acid from benzylalcohol, (v) azo dye.

B.Sc.-II

ASD
20.6.2019

Pravastha
24.6.19

Nals

gputala

V. J. Kumar

Paper-IV

LABORATORY COURSE

INORGANIC CHEMISTRY

Qualitative semimicro analysis of mixtures containing 5 radicals. Emphasis should be given to the understanding of the chemistry of different reactions. The following radicals are suggested:

CO_3^{2-} , NO_2^- , S^{2-} , SO_3^{2-} , $\text{S}_2\text{O}_3^{2-}$, CH_3COO^- , F^- , Cl^- , Br^- , I^- , NO_3^- , BO_3^{3-} , $\text{C}_2\text{O}_4^{2-}$, PO_4^{3-} , NH_4^+ , K^+ , Pb^{2+} , Cu^{2+} , Cd^{2+} , Bi^{3+} , Sn^{2+} , Sb^{3+} , Fe^{2+} , Al^{3+} , Cr^{3+} , Zn^{2+} , Mn^{2+} , Co^{2+} , Ni^{2+} , Ba^{2+} , Sr^{2+} , Ca^{2+} , Mg^{2+} .

Mixtures should preferably contain one interfering anion, or insoluble component (BaSO_4 , SrSO_4 , PbSO_4 , CaF_2 or Al_2O_3) or combination of anions e.g. CO_3^{2-} and SO_3^{2-} , NO_2^- and NO_3^- , Cl^- , Br^- , and I^- .

Volumetric analysis

- Determination of acetic acid in commercial vinegar using NaOH .
 - Determination of alkali content-antacid tablet using HCl .
 - Estimation of calcium content in chalk as calcium oxalate by permanganometry.
 - Estimation of hardness of water by EDTA .
 - Estimation of ferrous & ferric by dichromate method.
 - Estimation of copper using thiosulphate.
- Principles involved in chromatographic separations. Paper chromatographic separation of following metal ions: i. Ni (II) and Co (II) ii. Fe (III) and Al (III)

ORGANIC CHEMISTRY

- Detection of elements (X , N , S).
- Qualitative analysis of unknown organic compounds containing simple functional groups (alcohols, carboxylic acids, phenols, nitro, amine, amide, and carbonyl compounds, carbohydrates)
- Preparation of Organic Compounds:
 - m-dinitrobenzene, (ii) Acetanilide, (iii) Bromo/Nitro-acetanilide, (iv) Oxidation of primary alcohols-Benzoic acid from benzylalcohol, (v) azo dye.

B.Sc.-II

Basu
20.6.2015

Divakar
24-6-15

Vals

J. J. J.

M. J. J.

PHYSICAL CHEMISTRY

Transition Temperature

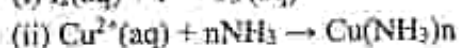
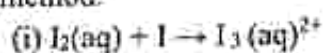
- Determination of the transition temperature of the given substance by thermometric/dilatometric method (e.g. $\text{MnCl}_2 \cdot 4\text{H}_2\text{O}$ / $\text{SrBr}_2 \cdot 2\text{H}_2\text{O}$).

Thermochemistry

- Determination of heat capacity of a calorimeter for different volumes using change of enthalpy data of a known system (method of back calculation of heat capacity of calorimeter from known enthalpy of solution or enthalpy of neutralization).
- Determination of heat capacity of the calorimeter and enthalpy of neutralization of hydrochloric acid with sodium hydroxide.
- To determine the solubility of benzoic acid at different temperature and to determine ΔH of the dissolution process.
- To determine the enthalpy of neutralization of a weak acid/ weak base versus strong base/ strong acid and determine the enthalpy of ionization of the weak acid/ weak base.
- To determine the enthalpy of solution of solid calcium chloride and calculate the lattice energy of calcium chloride from its enthalpy data using Born Haber cycle.

Phase Equilibrium

- To study the effect of a solute (e.g. NaCl, Succinic acid) on the critical solution temperature of two partially miscible liquids (e.g. phenol-water system) and to determine the concentration of that solute in the given phenol-water system.
- To construct the phase diagram of two component system (e.g. diphenylamine-benzophenone) by cooling curve method.
- Distribution of acetic/ benzoic acid between water and cyclohexane.
- Study the equilibrium of at least one of the following reactions by the distribution method:



Molecular Weight Determination

Determination of molecular weight by Rast Camphor and Landsburger method.

Note: Experiments may be added/ deleted subject to availability of time and facilities.

B.Sc.-II

ABM
20.6.2019

P. Vasanth
24.6.19

W. S. S.

G. S. S.

V. S. S.

Reference Books

1. Mann, F.G. & Saunders, B.C. *Practical Organic Chemistry*, Pearson Education (2009)
2. Furniss, B.S., Hannaford, A.J., Smith, P.W.G. & Tatchell, A.R. *Practical Organic Chemistry*, 5th Ed. Pearson (2012)
3. Ahluwalia, V.K. & Aggarwal, R. *Comprehensive Practical Organic Chemistry: Preparation and Quantitative Analysis*, University Press (2000). 22
4. Ahluwalia, V.K. & Dhingra, S. *Comprehensive Practical Organic Chemistry: Qualitative Analysis*, University Press (2000).
5. Khosla, B. D.; Garg, V. C. & Gulati, A. *Senior Practical Physical Chemistry*, R. Chand & Co.: New Delhi (2011). Garland, C. W.; Nibler, J. W. & Shoemaker, D. P. *Experiments in Physical Chemistry* 8th Ed.; McGraw-Hill: New York (2003).
6. Halpern, A. M. & McBane, G. C. *Experimental Physical Chemistry* 3rd Ed.; W.H. Freeman & Co.: New York

B.Sc.-II

Asahi
20.6.2015

Divyanshu
24.6.15

Nishi

S. Parthasarathy

V. J. Kumar

Hrs.5

PRACTICAL EXAMINATION

M.M.50

Three Experiments are to be performed.

1. Inorganic – Qualitative semimicro analysis of mixtures.

12 marks

OR

One experiment from synthesis and analysis by preparing the standard solution.

2. (a) Identification of the given organic compound & determine its M.Pt./B.Pt.

6 marks

(b) Determination of Rf value and identification of organic compounds by paper chromatography.

6 marks

3. Any one physical experiment that can be completed in two hours including calculations.

12 marks

4. Viva

10 marks

5. Sessional

04 marks

In case of Ex-Students one marks will be added to each of the experiment.

B.Sc.-II

24.6.13

24-6-13

Niels

-g.purkait

V. K. Khanna

MICROBIOLOGY**BSc-2nd****Paper- I: Molecular Biology and Genetic Engineering.****UNIT-1: FUNDAMENTALS OF MOLECULAR BIOLOGY**

History and scope of molecular biology, concept and mechanism of heredity, DNA as genetic material- experimental evidences, DNA replication- mechanism, process and enzymes/proteins involved in replication.

UNIT-2: CENTRAL DOGMA OF PROTEIN SYNTHESIS

Transcription- initiation, elongation, termination, RNA polymerases and sigma factor, Transcription inhibitors (antibiotics, drugs)
Translation- initiation, elongation and termination, Factors involved in translation, Genetic code.

UNIT-3: MUTATION AND DNA REPAIR MECHANISM

Introduction and Types of Gene mutations- Base substitution, frame shift mutation (insertion, deletion, miss-sense, nonsense mutation) mutagen - physical and chemical, Reverse mutation in bacteria, DNA repair mechanism (mismatch repair, photo-reactivation, excision and SOS repair), Beneficial and harmful effect of mutation.

UNIT-4: GENE REGULATION

Concept of gene- Cistron, Recon, Muton, Operon Concept- lac Operon, tryptophan Operon, His Operon, Activator, Co-activator and Repressor, Introduction to Bioinformatics- Elementary genome Database.

UNIT-5: GENETIC ENGINEERING

Basic concept of Genetic Engineering, DNA modifying enzymes Restriction endonuclease, DNA ligase, terminal transferase, Vectors- pBR322, pUC19, HAC and YAC, Phage based vectors, expression of vector, Transformation - physical and chemical method, Bacterial Host, Screening of recombinant vector Blue white Screening, Colony Hybridization.

Text Books Recommended:

1. Gene Cloning by T.A. Brown.
2. General Microbiology by Power and Dagarivala.
3. Zinssers Microbiology by KJ Wolfgang, McGraw- Hill Company.
4. Microbial Genetics by RM Stanley, F David and EC John.
5. Bacteriological Techniques by FJ Baker.
6. Molecular Biology of the Cell; 3rd Edition, Bruce Alberts, et.al, Garland Publishing.
7. Cell biology; C.B. Pawar; Himalaya Publishing House; Fifth edition
8. Cell & Molecular Biology; Gerald Karp; Fourth edition
9. A Textbook of Microbiology; Dubey & Maheshwari; S. Chand & Sons.
10. Cell biology & Genetics; P. K. Gupta
11. Introduction to Bioinformatics; T. K. Atwood and D J Parry-Smith; Pearson Education Ltd

PLS
15/6/19

Dark
15/6/19

Amp
15/6/19

D
15/06/19

Paper- II: Bioinstrumentation and Biostatistics

UNIT-1: MICROSCOPY AND CENTRIFUGATION

Simple and compound light microscope, Bright field, Dark field, Phase contrast and Electron microscope. Centrifugation- principle and types of centrifuges (analytical and preparatory), types of centrifugation- differential and rate zonal centrifugation.

UNIT-2: pH metry and chromatography

Principle of pH meter, types of electrodes, factors affecting pH measurements, and application of pH meter. Chromatography- principle, types- paper, TLC and column chromatography, HPLC.

UNIT-3: SPECTROPHOTOMETRY

Electromagnetic spectrum, Beers-Lamberts law, Types (Principles, working and application)- colorimeter, UV - Vis Spectrophotometry and IR- Spectrophotometry, Turbidometry.

UNIT-4: Electrophoresis and X-Ray Diffraction

Principle of electrophoresis, instrumentation and Application, types of Paper, Gel electrophoresis and Immunoelectrophoresis. X-ray diffraction- principle and application.

UNIT-5: Biostatistics

Data- Types, characteristics, presentation and distribution. Data analysis- central tendency (Mean, Median and Mode), Deviation (variance SD and SE). Concept of probability.

Text Books Recommended:

1. Introduction to Instrumental analysis by Robert Braun.
2. Instrumental Techniques by Upadhyay and Upadhyay.
3. Instrumental Methods of Chemical Analysis by BK Sharma.
4. Bio statistics; Sunder Rao
5. Statistical Methods; S. P. Gupta; Sultan Chand & Sons

PKS
15/6/19

Dant
15/6/19

D Gupta
15/6/19

D
15/06/19

PRACTICAL

M. M. 50

Determination of antibiotic resistance by plating method.
 Assaying of microbial enzymes: Catalase, Proteases, Peroxidases,
 Cellulase, Cellobioases, Amylase, Diastase.
 Exercise on paper, thin layer, column chromatography.
 Exercise on paper and gel electrophoresis.
 determination of pH of various water and soil sample.
 testing of lambert beer's law,
 Determination of lamda max of dye by spectrophotometer
 Isolation of resistant bacteria from soil and water sample

Scheme of Practical Examination

Time - 4 hours

M.M. 50

1. Exercise on spectrophotometer/ pH meter	10
2. Exercise on chromatography	10
3. Exercise on genetics	05
4. Spotting (1-5)	10
5. Viva-Voce	05
6. Sessional	10

Total 50

Phos
15/6/19

Plant
15/6/19

Amph
15/6/19

Phos
15/6/19

B.Sc.-II (BOTANY) PAPER-I
(PLANT TAXONOMY, ECONOMIC BOTANY, PLANT ANATOMY AND EMBRYOLOGY)

UNIT-I

Bentham and Hooker system of classification. Binomial Nomenclature, International Code of Nomenclature for Algae, Fungi, and plants (IUCN), Typification, numerical Taxonomy and chemotaxonomy. Preservation of Plant material and Herbarium techniques. Important botanical gardens and herbaria of India, Kew Botanical garden, England.

UNIT-II

Systematic position, distinguishing characters and economic importance of the following families, Ranunculaceae, Magnoliaceae, Brassicaceae, Rosaceae, Papaveraceae, Caryophyllaceae, Rutaceae, Cucurbitaceae, Apiaceae, Rubiaceae, Apocynaceae, Aselepiadaceae, Solanaceae, Malvaceae, Convolvulaceae, Orchidaceae, Acanthaceae, verbenaceae, Lamiaceae, Asteraceae, Fabaceae, Euphorbiaceae, Poaceae and Liliaceae.

UNIT-III

Economic Botany: Botanical name, family, part used and uses of the following economically important plants; fiber yielding plants; Cotton, jute, sun, hemp, coir. Timber yielding plants: Sal, Teak, Shisham and Pine. Medicinal plants: Kalmegh, Ashwagandha, Ghrītkumari, Giloy, Brahmi, sargandha, ---of medicinal plants of C.G. Food plants: Pearl millet, Buck of wheat, Sorghum, Soyabean, gram, Ground nut, Sugarcane and Potato. Fruit plants: Pear, Peach, Litchi. Spices: Cinnamon, Turmeric, Ginger, Asafoetida and Cumin. Beverages : Tea, Coffee Rubber Cultivation of important flowers: Chrysanthemum, Dahelia, Biodiesel plants Jatropha, Pongamia Ethnobotany in context of Chhattisgarh.

UNIT-IV

Plant Anatomy: Root and shoot apical meristems theories of root and shoot apex organization, permanent tissues, anatomy of root, stem and leaf of dicot and monocot, secondary growth in root and stem, Anatomical anomalies in the primary structure of stems (Nyctanthes, Boerhaavia, Casuarina), Anamolous secondary growth in Dracaena, Bignonia, Laptadenia.

UNIT-V

Embryology: Flower as a reproductive organ, anther, microsporogenesis, types of ovules, megasporogenesis, development of male and female gametophyte, pollination, mechanisms, self incompatibility, fertilization, endosperm, embryo, polyembryony, apomixes and parthenocarpy.

Books Recommended:

Amal
13.6.19

Rohit
12/6/19

Dr. P. K. Singh
13.6.19

Sum
13.6.19

Singh, Pandey, Jain. *Diversity and Systematics of Seed Plants*, Rastogi Publications Meerut

Sharma OP, *Plant Taxonomy*, Tata Mc Graw Hill, New Delhi

Pandey BP, *Taxonomy of Angiosperms*, S. Chand Publishing, New Delhi

Pandey, BP, *Plant Anatomy*, S.Chand Publishing, New Delhi

Pandey, BP, *Economic Botany*, S.Chand Publishing, New Delhi

Bhojwani, SS and Bhatanagar SP, *Embryology of Angiosperm*, Vikas Publication House, New Delhi

Singh, Pandey, Jain, *Embryology of Angiosperms*, Rastogi Publication, Meerut

Sharma, V, Alum, A. *Ethnobotany*, Rastogi Publications, Meerut

Tayal, MS *Plant Anatomy*, Rastogi Publication, Meerut

(Dr. J.N. Verma)

Proff. & Head

Govt. D.B. Girls PG College

Raipur, (C.G.)

(Dr. Rekha Pimpalgaonkar)

Proff. & Head

Govt. N PG Science College

Raipur, (C.G.)

(Dr. Ranjann Shrivastava)

Proff. & Head

Govt. VYTPG Science College

Raipur, (C.G.)

(Mrs. Sanchal Moghe)

Govt. Bilasa Girls College, Bilaspur

(Mr. Shivakant Mishra)

(Mr. Sudheer Tiwari)

Amal
13-6-19

Ravi
13/6/19

Shan
13-6-19

Shan
13.6.19

B.Sc.-II (BOTANY) PAPER-II
(ECOLOGY AND PLANT PHYSIOLOGY)

UNIT-I

Introduction and scope of ecology, environmental and ecological factors, Soil formation and soil profile, Liebig's law of minimum, Shelford's law of tolerance, morphological and anatomical adaptations in hydrophytes, xerophytes and epiphytes.

UNIT-II

Population and community characteristics, Raunkiaer's life forms, population interactions (e.g. Symbiosis, Amensalism etc.), succession, ecotone and edge effect, ecological niches, ecotypes, ecads, keystone species

Concept of ecosystem, trophic levels, flow of energy in ecosystem, food chain and food web, concept of ecological pyramids

Biogeochemical cycles: carbon cycle, nitrogen cycle and phosphorus cycle

UNIT-III

Plant water relations: Diffusion, permeability, osmosis, imbibitions, plasmolysis, osmotic potential and water potential, Types of soil water, water holding capacity, wilting, Absorption of water, theories of Ascent of sap, Mineral nutrition and absorption, Deficiency symptoms, Transpiration, stomatal movement, significance of transpiration, Factors affecting transpiration, guttation.

UNIT-IV

Photosynthesis: Photosynthetic apparatus and pigments, light reaction mechanism of ATP synthesis. C₃, C₄ CAM pathway of carbon reduction, photorespiration, factors affecting photosynthesis.

Respiration: Aerobic and anaerobic respiration, Glycolysis, Krebs's cycle, factors affecting respiration, R.Q.

UNIT-V

Plant growth hormones: Auxin, Gibberellin, Cytokinin, Ethylene and Abscissic acid. Physiology of flowering, Florigen concept, Photoperiodism and Vernalization. Seed dormancy and germination, plant movement.

Books Recommended:

Koromondy, E.J. *Concepts of Ecology*, Prentice Hall, USA

Amal
13.6.19

Rene
13/6/19

NO
13.6.19

13.6.19

Singh, JS Singh SP and Gupta SR. *Ecology and Environmental Science and Conservation*, S. Chand Publishing, New Delhi

Sharma, PD. *Ecology and Environment*, Rastogi Publications, Meerut

Hopkins, WG and Huner, PA. *Introduction to Plant Physiology*, John Wiley and Sons.

Pandey SN and Sinha BK, *Plant Physiology*, Vikas Publishing, New Delhi

Taiz, L and Zeiger. E. *Plant Physiology*, 5th edition, Sinauer Associates Inc. M.A, USA

Srivastava, HS *Plant Physiology and Biotechnology*, Rastogi Publications, Meerut

B.Sc. II (BOTANY)

Practical

1. Taxonomy: Detailed description and identification of locally available plants of the families as prescribed in the theory paper.
2. Economic Botany: Identification and comment on the plants and plant products belonging to different economic use categories
3. Preparation of Herbarium of local wild plants.
4. Quantitative vegetation analysis of a grassland ecosystem.
5. Anatomical characteristics of hydrophytes and xerophytes.
6. Demonstration of root pressure.
7. Demonstration of transpiration.
8. Demonstration of evolution of O_2 in photosynthesis, factors affecting of photosynthesis.
9. Comparison of R.Q. of different respiratory substrates.
10. Demonstration of fermentation.
11. Determination of BOD of a water body.
12. Demonstration of mitosis.

Amal
13.6.19

Ravi
13/6/19

AD
13.6.19

Sum
13.6.19

PRACTICAL SCHEME

TIME: 4 Hrs.

M.M. : 50

1.	Anatomy	
2.	Economic Botany	08
3.	Physiology	04
4.	Ecology	08
5.	Spotting	10
6.	Viva-Voce	10
7.	Project Work/ Field Study	05
		10



(Dr. J.N. Verma)

Proff. & Head

Govt. D.B. Girls PG College

Raipur, (C.G.)



(Dr. Rekhia Pimpalgankar)

Proff. & Head

Govt. N PG Science College

Raipur, (C.G.)



(Dr. Ranjana Shrivastava)

Proff. & Head

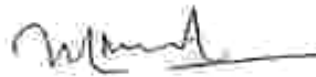
Govt. VYTPG Science College

Raipur, (C.G.)



(Mrs. Sanchal Moghe)

Govt. Bilasa Girls College, Bilaspur

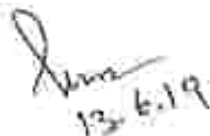


(Mr. Shivakant Mishra)

(Mr. Sudbeer Tiwari)



13-6-19



13-6-19



13-6-19



हेमचंद्र यादव विश्वविद्यालय, दुर्ग (छ.ग.)

(पूर्व नाम- दुर्ग विश्वविद्यालय, दुर्ग)

रायपुर नाका दुर्ग (छ.ग.)-491001

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वेब साइट : www.durguniversity.ac.in

दूरभाष : 0783-2359400



क्र. 3861 / अका. / 2021

दुर्ग, दिनांक 30/3/21

प्रति,

प्राचार्य,

समस्त संबद्ध महाविद्यालय,

हेमचंद्र यादव विश्वविद्यालय,

दुर्ग (छ.ग.)

विषय:- स्नातक स्तर भाग-तीन के पाठ्यक्रम विषयक।

संदर्भ:- संयुक्त संचालक, उच्च शिक्षा विभाग के पत्र क्र. 2456/315/आउशि/सम/2019, दिनांक 16.05.2019।

—00—

विषयांतर्गत लेख है कि संदर्भित पत्र के माध्यम से प्राप्त स्नातक स्तर भाग-तीन के निम्नलिखित कक्षा/विषयों के परिवर्तित/संशोधित पाठ्यक्रम शिक्षा सत्र 2021-22 से लागू किये जाते हैं:-

1. बी.ए. — आधार पाठ्यक्रम – हिन्दी भाषा, हिन्दी साहित्य, राजनीतिशास्त्र, अर्थशास्त्र, नृत्य, दर्शनशास्त्र, समाजशास्त्र, इतिहास, मानवविज्ञान, संस्कृत, सांख्यिकी प्राचीन भारतीय इतिहास, भूगोल, मनोविज्ञान
2. बी.एस-सी. — आधार पाठ्यक्रम-हिन्दी भाषा, जीव विज्ञान, मानवविज्ञान, बायोटेक्नोलॉजी, कम्प्यूटर साईंस, गणित, भौतिक शास्त्र, प्राणीशास्त्र, सूक्ष्मजीव विज्ञान, वनस्पतिशास्त्र, भूविज्ञान, इलेक्ट्रॉनिक्स, रसायन शास्त्र, सांख्यिकी, भूगोल।
3. बी.ए./बी.एस.सी. — आधार पाठ्यक्रम – हिन्दी भाषा एवं गृह विज्ञान।
(गृह विज्ञान)
4. बी.सी.ए. — भाग-3
5. बी.कॉम. — भाग-1, भाग-2 एवं भाग-3 का परिवर्तित पाठ्यक्रम सत्र 2019-20 में जारी कर लागू किया जा चुका है।

कृ.प.उ.

उपरोक्त विषयों को शिक्षा सत्र 2021-22 से संशोधित रूप में स्नातक स्तर भाग-तीन के लिए लागू किया जाता है स्नातक स्तर भाग-एक हेतु सत्र 2019-20 एवं स्नातक स्तर भाग-दो हेतु सत्र 2020-21 में लागू पाठ्यक्रम मान्य होंगे।

टीप:- परिवर्तित/संशोधित पाठ्यक्रम विश्वविद्यालय की वेबसाईट पर उपलब्ध है।


कुलसचिव

क्र. 3862 /अका./2021

दुर्ग, दिनांक 20/7/21

प्रतिलिपि:-

1. संयुक्त संचालक, उच्च शिक्षा विभाग के पत्र क्र. 2456/315/आउशि/सम/2019, दिनांक 16.05.2019 के परिप्रेक्ष्य में सूचनाएं
2. उपकुलसचिव, परीक्षा विभाग एवं उपकुलसचिव, गोपनीय विभाग हेमचंद्र यादव विश्वविद्यालय, दुर्ग।
3. वेबसाईट प्रभारी, वेबसाईट पर पाठ्यक्रम प्रकाशित करने हेतु।
4. कुलपति के निज सहायक एवं कुलसचिव के निज सहायक, हेमचंद्र यादव विश्वविद्यालय, दुर्ग।


सहा. कुलसचिव (अका.)

बी.ए./बी.एस.-सी./बी.कॉम./बी.एच.एस.-सी.
भाग - तीन, आधार पाठ्यक्रम
प्रश्न पत्र - प्रथम (हिन्दी भाषा)

पूर्णांक- 75

- इकाई-एक (क) भारत माता : सुमित्रानंदन पंत
(ख) कथन की शैलियाँ
1. विवरणात्मक शैली
2. मूल्यांकन शैली
3. व्याख्यात्मक शैली
4. विधारात्मक शैली
- इकाई-दो (क) सूखी झाली : उपेन्द्रनाथ अश्क
(ख) विभिन्न संरचनाएँ
1. विनम्रता सूचक संरचना
2. विधि सूचक संरचना
3. निषेध परक संरचना
4. काल-बोधक संरचना
5. स्थान-बोधक संरचना
6. दिशा बोधक संरचना
7. कार्य-कारण सम्बन्ध संरचना
8. अनुक्रम संरचना
- इकाई-तीन (क) वसीयत : मालती जोशी
(ख) कार्यालयीन पत्र और आलेख
1. परिपत्र
2. आदेश
3. अधिसूचना
4. ज्ञापन
5. अनुरमारक
6. पृष्ठांकन
- इकाई-चार (क) योग की शक्ति : हरिवंश राय बच्चन
(ख) अनुवाद : स्वरूप एवं परिभाषा, उद्देश्य
स्त्रोत भाषा और लक्ष्य भाषा,
अच्छे अनुवाद की विशेषताएँ,
अनुवाद प्रक्रिया, अनुवादक
- इकाई-पांच (क) संस्कृति और राष्ट्रीय एकीकरण : योगेश अटल
(ख) घटनाओं, समासों आदि का प्रतिवेदन, विभिन्न प्रकार के निर्मंत्रण पत्र

मूल्यांकन योजना : प्रत्येक इकाई से एक-एक प्रश्न पूछा जाएगा। प्रत्येक प्रश्न में आंतरित विकल्प होगा। प्रत्येक प्रश्न के 15 अंक होंगे। इसलिए प्रत्येक प्रश्न के दो भाग 'क' और 'ख' होंगे एवं अंक क्रमशः 8 एवं 7 अंक होंगे। प्रश्नपत्र का पूर्णांक 75 निर्धारित है।

5/7/2024

डा. आशा शिखर



आशा शिखर

Foundation Course-III

English Language

B.A./B.Sc./B.Com./B.H.Sc./III

M.M. 75

The question paper for B.A./B.Sc./B.Com./B.H.Sc. III Foundation course, English Language and General Answers shall comprise the following items :

Five question to be attempted, each carrying 3 marks.

UNIT-I Essay type answer in about 200 words. 5 essay type question to be asked three to be attempted.	15
UNIT-II Essay writing	10
UNIT-III Precise writing	10
UNIT-IV (a) Reading comprehension of an unseen passage	05
(b) Vocabulary based on text	10
UNIT-V Grammar Advanced Exercises	25

Note: Question on unit I and IV (b) shall be asked from the prescribed text. Which will comprise of popular create writing and the following items. Minimum needs housing and transport Geo-economic profile of M.P. communication Educate and culture. Women and Worn in Empowerment Development, management of charge, physical quality of life. War and human survival, the question of human social value survival, the question of human social value, new Economic Philosophy Recent Diberaiation Method) Demaration decentralization (with reference to 73, 74 constitutional Amendment.

Books Prescribed:

Aspects of English Language and Development - Published by M.P. Hindi Granth Academy, Bhopal.

HEMCHAND YADAV VISHWAVIDYALAYA, DURG (C.G.)
NEW CURRICULUM OF B.Sc. PART III
SESSION 2021-22
CHEMISTRY

The new curriculum will comprise of three papers of 33, 33 and 34 marks each and practical work of 50 marks. The Curriculum is to be completed in 180 working days as per UGC norms and conforming to the directives of Govt. of Chhattisgarh. The theory papers are of 60 hrs. Each duration and practical work of 180 hrs duration.

Paper – I
INORGANIC CHEMISTRY **60 Hrs., Max Marks 33**

UNIT-I

METAL-LIGAND BONDING IN TRANSITION METAL COMPLEXES

(A) Limitations of valence bond theory, Limitation of Crystal Field Theory, Application of CFSE, tetragonal distortions from octahedral geometry, Jahn–Teller distortion, square planar geometry. Qualitative aspect of Ligand field and MO Theory.

(B) Thermodynamic and kinetic aspects of metal complexes. A brief outline of thermodynamic stability of metal complexes and factors affecting the stability, substitution reactions of square planar complexes, Trans- effect, theories of trans effect. Mechanism of substitution reactions of square planar complexes.

UNIT-II

MAGNETIC PROPERTIES OF TRANSITION METAL COMPLEXES

Types of magnetic behavior, methods of determining magnetic susceptibility, spin only formula, L-S coupling, correlation of μ_{exp} (spin only) and μ_{eff} values, orbital contribution to magnetic moments, application of magnetic moment data for 3d metal complexes.

Electronic spectra of Transition Metal Complexes.

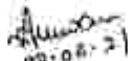
Types of electronic transitions, selection rules for d-d transitions, spectroscopic ground states, spectro-chemical series. Orgel-energy level diagram for d^1 and d^2 states, discussion of the electronic spectrum of $[\text{Ti}(\text{H}_2\text{O})_6]^{3+}$ complex ion.

UNIT-III

ORGANOMETALLIC CHEMISTRY

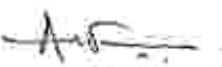
Definition and classification of organometallic compounds on the basis of bond type. Concept of hapticity of organic ligands. Metal carbonyls: 18-electron rule, electron count of mononuclear, polynuclear and substituted metal carbonyls of 3d series. General methods of preparation (direct combination, reductive carbonylation, thermal and photochemical decomposition) of mono and binuclear carbonyls of 3d series.

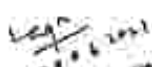
Structures of mononuclear and binuclear carbonyls of Cr, Mn, Fe, Co and Ni using VBT. π -acceptor behavior of CO (MO diagram of CO to be discussed), Zeise's salt: Preparation and structure.


28.06.21
(Anil Kumar)


28.06.2021
(Dr. C. Bose)


28.06.2021
(Dr. Rajmani Patel)


28.6.2021


28.6.2021
Jagdish Kumar

Catalysis by Organometallic Compounds –

Study of the following industrial processes and their mechanism :

1. Alkene hydrogenation (Wilkinsons Catalyst)
2. Polymeration of ethane using Ziegler – Natta Catalyst

UNIT-IV

BIOINORGANIC CHEMISTRY

Essential and trace elements in biological processes, Excess and deficiency of some trace metals, Toxicity of some metal ions (Hg, Pb, Cd and As), metalloporphyrins with special reference to hemoglobin and myoglobin. Biological role of alkali and alkaline earth metals with special reference to Ca^{2+} and Mg^{2+} ; nitrogen fixation.

UNIT-V

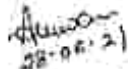
HARD AND SOFT ACIDS AND BASES (HSAB) Classification of acids and bases as hard and soft. Pearson's HSAB concept, acid-base strength and hardness and softness. Symbiosis, Applications of HSAB principle.


INORGANIC POLYMERS


Types of inorganic polymers, comparison with organic polymers, synthesis, structural aspects and applications of silicones. Silicates, phosphazenes and polyphosphate.

REFERENCE BOOKS

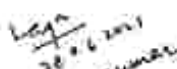
1. Basic Inorganic Chemistry, F. A. Cotton, G. Wilkinson and P. L. Gaus, Wiley.
2. Concise Inorganic Chemistry, J. D. Lee, ELBS.
3. Concepts of Models of Inorganic Chemistry, B. Douglas, D. Mc Daniel and J. Alexander, John Wiley.
4. Inorganic Chemistry, D. E. Shriver, P. W. Atkins and C. H. Langford, Oxford.
5. Inorganic Chemistry, W. W. Porterfield, Addison – Wiley.
6. Inorganic Chemistry, A. G. Sharp, ELBS.
7. Inorganic Chemistry, G. L. Miessler and D. A. Tarr, Prentice Hall.
8. Advanced Inorganic Chemistry, Satya Prakash.
9. Advanced Inorganic Chemistry, Agarwal and Agarwal.
10. Advanced Inorganic Chemistry, Puri, Sharma, S. Naginchand.
11. Inorganic Chemistry, Madan, S. Chand.
12. Aadhunik Akarbanic Rasayan, A. K. Shrivastav & P. C. Jain, Goel Pub.
13. Uchchattar Akarbanic Rasayan, satya Prakash & G. D. Tuli, Shyamal Prakashan.
14. Uchchattar Akarbanic Rasayan, Puri & Sharma.
15. Selected topic in Inorganic Chemistry by Madan Malik & Tuli, S. Chand.


28.06.21
(Anika Tuli)


28.06.2021
(Dr. C. Rave)


30.06.2021
(Dr. Rajmani Patel)


28.06.2021


30.06.2021
Jagjit Kumar

UNIT-I

HETEROCYCLIC COMPOUNDS

Classification and nomenclature, Structure, aromaticity in 5-membered and 6-membered rings containing one heteroatom; Synthesis, reactions and mechanism of substitution reactions of: Furan, Pyrrole (Paal-Knorr synthesis, Knorr pyrrole synthesis, Hantzsch synthesis), Thiophene, Pyridine (Hantzsch synthesis), Indole (Fischer indole synthesis and Madelung synthesis), Quinoline and isoquinoline, (Skraup synthesis, Friedlander's synthesis, Knorr quinoline synthesis, Doebner- Miller synthesis, Bischler-Napieralski reaction, Pictet- Spengler reaction, Pomeranz-Fritsch reaction).

UNIT II

A. ORGANOMETALLIC REAGENT

Organomagnesium compounds: Grignard reagents: formation, structure and chemical reactions.

Organozinc compounds: formation and chemical reactions.

Organolithium compounds: formation and chemical reactions.

B. ORGANIC SYNTHESIS VIA ENOLATES

Active methylene group, alkylation of diethylmalonate and ethyl acetoacetate, Synthesis of ethyl acetoacetate: The Claisen condensation. Keto-enol tautomerism of ethyl acetoacetate. Robinson annulations reaction.

UNIT-III

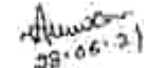
BIOMOLECULES

A. CARBOHYDRATES

Occurrence, classification and their biological importance. Monosaccharides: relative and absolute configuration of glucose and fructose, epimers and anomers, mutarotation, determination of ring size of glucose and fructose, Haworth projections and conformational structures; Interconversions of aldoses and ketoses; Killiani Fischer synthesis and Ruff degradation; Disaccharides – Structural comparison of maltose, lactose and sucrose. Polysaccharides – Elementary treatment of starch and cellulose.

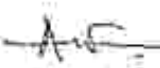
B. AMINO ACIDS, PROTEINS AND NUCLEIC ACIDS


Classification and Nomenclature of amino acids, Configuration and acid base properties of amino acids, Isoelectric Point, Peptide bonds, Protein structure, denaturation/renaturation, Constituents of nucleic acid, DNA, RNA nucleoside, nucleotides, double helical structure of DNA.


28.06.21
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(Dr. C. B. Bhat)


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(Dr. Rajmani Patel)


28.06.2021


28.06.2021
(Anil Kumar)

UNIT-IV

SYNTHETIC POLYMERS

- A. Addition or chain growth polymerization, Free radical vinyl polymerization, Ziegler-Natta polymerization, Condensation or Step growth polymerization, polyesters, polyamides, phenols- formaldehyde resins, urea-formaldehyde resins, epoxy resins and polyurethanes, natural and synthetic rubbers.
- B. **SYNTHETIC DYES**
Colour and constitution (Electronic Concept). Classification of Dyes. Chemistry of dyes. Chemistry and synthesis of Methyl Orange, Congo Red, Malachite Green, Crystal Violet, phenolphthalein, fluorescein, Alizarine and Indigo.

UNIT-V

- A. **INFRA-RED SPECTROSCOPY**
Basic principle, IR absorption Band their position and intensity, IR spectra of organic compounds.
- B. **UV-VISIBLE SPECTROSCOPY**
Beer Lambert's law, effect of Conjugation, Types of electronic transitions λ_{max} , Chromophores and Auxochromes, Bathochromic and Hypsochromic shifts, Intensity of absorption Visible spectrum and colour.
- C. **NMR SPECTROSCOPY**
Basic principles of Proton Magnetic Resonance, Tetramethyl silane (TMS) as internal standard, chemical shift and factors influencing it; Spin - Spin coupling and coupling constant (J). Anisotropic effects in alkene, alkyne, aldehydes and aromatics, Interpretation of NMR spectra of simple organic compounds. ^{13}C MR spectroscopy: Principle and applications.

REFERENCE BOOKS

1. Organic Chemistry, Morrison and Boyd, Prentice-Hall.
2. Organic Chemistry, L. G. Wade Jr. Prentice Hall.
3. Fundamentals of Organic Chemistry, Solomons, John Wiley.
4. Organic Chemistry, Vol I, II, III S. M. Mukherjee, S. P. Singh and R. P. Kapoor, Wiley Easters (New Age).
5. Organic Chemistry, F. A. Carey, McGraw Hill.
6. Introduction to Organic Chemistry, Struweiesser, Heathcock and Kosover, Macmillan.
7. Acheson, R.M. Introduction to the Chemistry of Heterocyclic compounds, John Wiley & Sons (1976).
8. Graham Solomons, T.W. Organic Chemistry, John Wiley & Sons, Inc.
9. McMurry, J.E. Fundamentals of Organic Chemistry, 7th Ed. Cengage Learning India Edition, 2013.
10. Kalsi, P. S. Textbook of Organic Chemistry 1st Ed., New Age International (P) Ltd. Pub.
11. Clayden, J.; Greeves, N.; Warren, S.; Wothers, P.; Organic Chemistry, Oxford University Press.

Alexander
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Tupinil Kumar

UNIT-I

QUANTUM MECHANICS-I

Black-body radiation, Planck's radiation law, photoelectric effect, Compton effect. Operator: Hamiltonian operator, angular momentum operator, Laplacian operator, postulate of quantum mechanics, eigen values, eigen function, Schrodinger time independent wave equation, physical significance of ψ & ψ^2 , application of Schrodinger wave equation to particle in a one dimensional box, hydrogen atom (separation into three equations) radial and angular wave functions.

UNIT-II

A. QUANTUM MECHANICS-II

Quantum Mechanical approach of Molecular orbital theory, basic ideas-criteria for forming M.O. and A.O., LCAO approximation, formation of H_2^+ ion, calculation of energy levels from wave functions, bonding and antibonding wave functions, Concept of σ , σ^* , π , π^* orbitals and their characteristics, Hybrid orbitals- sp , sp^2 , sp^3 Calculation of coefficients of A.O.'s used in these hybrid orbitals.

Introduction to valence bond model of H_2 , comparison of M.O. and V.B. models. Huckel theory, application of Huckel theory to ethene, propene, etc.

UNIT III

SPECTROSCOPY

Introduction: Characterization of Electromagnetic radiation, regions of the spectrum, representation of spectra, width and intensity of spectral transition, Rotational Spectrum of Diatomic molecules. Energy levels of a rigid rotor, selection rules, determination of bond length, qualitative description of non-rigid rotator, isotopic effect.

Vibrational Spectroscopy: Fundamental vibration and their symmetry vibrating diatomic molecules, Energy levels of simple harmonic oscillator, selection rules, pure vibrational spectrum, determination of force constant, anharmonic oscillator

Raman spectrum: Concept of polarizability, quantum theory of Raman spectra, stokes and antistokes lines, pure rotational and pure vibrational Raman spectra. Applications of Raman Spectra.

Electronic Spectroscopy: Basic principles, Electronic Spectra of diatomic molecule, Franck-Condon principle, types of electronic transition, application of electronic spectra.

Alkumar
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Boose
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(Dr. C. Boose)

Rajni
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Arif
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Legu
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(Dr. Legu Kumar)

UNIT-IV

ELECTROCHEMISTRY-I

- A. Electrolytic conductance: Specific and equivalent conductance, measurement of equivalent conductance, effect of dilution on conductance, Kohlrausch law, application of Kohlrausch law in determination of dissociation constant of weak electrolyte, solubility of sparingly soluble electrolyte, absolute velocity of ions, ionic product of water, conductometric titrations.
- B. Theories of strong electrolyte: limitations of Ostwald's dilution law, weak and strong electrolytes, Elementary ideas of Debye - Huckel - Onsager's equation for strong electrolytes, relaxation and electrophoretic effects.
- C. Migration of ions: Transport number, Determination by Hittorf method and moving boundary method, ionic strength.

UNIT-V

ELECTROCHEMISTRY-II

- A. Electrochemical cell and Galvanic cells - reversible and irreversible cells, conventional representation of electrochemical cells, EMF of the cell and effect of temperature on EMF of the cell, Nernst equation Calculation of ΔG , ΔH and ΔS for cell reactions.
- B. Single electrode potential : standard hydrogen electrode, calomel electrode, quinhydrone electrode, redox electrodes, electrochemical series
- C. Concentration cell with and without transport, liquid - junction potential, application of concentration cells in determining of valency of ions, solubility product and activity coefficient
- D. Corrosion-types, theories and prevention

REFERENCE BOOKS

1. Physical chemistry, G.M.Barrow, International Student Edition McGraw Hill.
2. University General Chemistry, CNR Rao, Macmillan.
3. Physical Chemistry R.A.Alberty, Wiley Eastn.
4. The elements of Physical Chemistry P.W.Atkin,Oxford.
5. Physical Chemistry through problems, S.K.Dogra, Wiley Eastern.
6. Physical Chemistry B.D.Khosla.
7. Physical Chemistry, Puri & Sharma.
8. Bhoutic Rasayan, Puri & Sharma.
9. Bhoutic Rasayan, P.L.Soni.
10. Bhoutic Rasayan, Bahil & Tuli.
11. Physical Chemistry, R.L.Kapoor, Vol- I-IV.
12. Introduction to quantum chemistry,A.K.Chandra,Tata McGraw Hill.
13. Quantum Chemistry,Ira N.Levine, Prentice Hall.

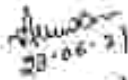
Ashish
28.06.21
(Dr. A.K. Tiwari)


Truce
28.06.2021
(Dr. C. Bera)

Sybil
28.06.2021
(Dr. Rajmani Bhat)

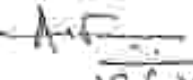
Arif
28.06.2021

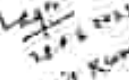
Legh
28.06.2021
Jyoti Kumar


20.06.2021
(An. Aisa Triand)


28.06.2021
(Drs. C. Bine)


20.06.2021
(Dr. Prjanti Pital)


28.6.2021


28.6.2021
Tugsi Kurnia

INORGANIC CHEMISTRY

Gravimetric analysis:

- Estimation of nickel (II) using Dimethylglyoxime (DMG).
- Estimation of copper as CuSCN
- Estimation of iron as Fe_2O_3 by precipitating iron as $\text{Fe}(\text{OH})_3$.
- Estimation of Al (III) by precipitating with oxine and weighing as $\text{Al}(\text{oxine})_3$ (aluminium oxinate).
- Estimation of Barium as BaSO_4

Inorganic Preparations:

- Tetraamminecopper (II) sulphate, $[\text{Cu}(\text{NH}_3)_4]\text{SO}_4 \cdot \text{H}_2\text{O}$
- Cis and trans $\text{K}[\text{Cr}(\text{C}_2\text{O}_4)_2 \cdot (\text{H}_2\text{O})_2]$ Potassium dioxalato-diaquachromate(III)
- Tetraamminecarbonatocobalt (III) ion
- Potassium tris(oxalate)ferrate(III)/ Sodium tris(oxalate)ferrate(III)
- $\text{Cu}(\text{I})$ thiourea complex, Bis (2,4-pentanedionate) zinc hydrate; Double salts (Chrome alum/ Mohr's salt)

ORGANIC CHEMISTRY

1. Preparation of organic Compounds

- Acetylation of one of the following compounds: amines (aniline, o-, m-, p- toluidines and o-, m-, p-anisidine) and phenols (β -naphthol, vanillin, salicylic acid)
- Benzoylation of one of the following amines (aniline, o-, m-, p- toluidines and o-, m-, p-anisidine) and one of the following phenols (β -naphthol, resorcinol, p cresol) by Schotten-Baumann reaction.
- Bromination of any one of the following: a. Acetanilide by conventional methods b. Acetanilide using green approach (Bromate-bromide method)
- Nitration of any one of the following: a. Acetanilide/nitrobenzene by conventional method b. Salicylic acid by green approach (using ceric ammonium nitrate).
- Reduction of p-nitrobenzaldehyde by sodium borohydride.
- Hydrolysis of amides and esters.
- Semicarbazone of any one of the following compounds: acetone, ethyl methyl ketone, cyclohexanone, benzaldehyde.
- Benzylisothiuronium salt of one each of water soluble and water insoluble acids (benzoic acid, oxalic acid, phenyl acetic acid and phthalic acid).
- Aldol condensation using either conventional or green method.

Signature
28.06.21
(Dr. Arka Talwar)

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(Dr. C. Bera)

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28.06.2021

Signature
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(Dr. Kumari)

- Benzil-Benzilic acid rearrangement.
- Preparation of sodium polyacrylate.
- Preparation of urea formaldehyde.
- Preparation of methyl orange.

The above derivatives should be prepared using 0.5-1g of the organic compound. The solid samples must be collected and may be used for recrystallization, melting point and TLC.

2. Qualitative Analysis Analysis of an organic mixture containing two solid components using water, NaHCO_3 , NaOH for separation and preparation of suitable derivatives.
3. Extraction of caffeine from tea leaves.
4. Analysis of Carbohydrate: aldoses and ketoses, reducing and non-reducing sugars.
5. Identification of simple organic compounds by IR spectroscopy and NMR spectroscopy. (Spectra to be provided).
6. Estimation of glycine by Sorenson's formalin method.
7. Study of the titration curve of glycine.
8. Estimation of proteins by Lowry's method.
9. Study of the action of salivary amylase on starch at optimum conditions.
10. Effect of temperature on the action of salivary amylase.

PHYSICAL CHEMISTRY

Conductometry

- Determination of cell constant.
- Determination of equivalent conductance, degree of dissociation and dissociation constant of a weak acid.
- Perform the following conductometric titrations:
 - i. Strong acid vs. strong base
 - ii. Weak acid vs. strong base
 - iii. Mixture of strong acid and weak acid vs. strong base
 - iv. Strong acid vs. weak base
- To determine the strength of the given acid conductometrically using standard alkali solution.
- To determine the solubility and solubility product of a sparingly soluble electrolyte conductometrically
- To study the saponification of ethyl acetate conductometrically.

Potentiometry/pH metry

Perform the following potentio/pH metric titrations:

- i. Strong acid vs. strong base
- ii. Weak acid vs. strong base
- iii. Dibasic acid vs. strong base
- iv. Potassium dichromate vs. Mohr's salt
- v. Determination of pK_a of monobasic acid

Arunima
28.06.21
(Dr. NINA Tripathi)

Praveen
28.06.2021
(Dr. C. Praveen)

Rajmani
28.06.2021
(Dr. Rajmani Patil)

Anurag
28.6.2021

Lagan
28.6.2021
Tajit Kumar

UV/ Visible spectroscopy

- Verify Lambert-Beer's law and determine the concentration of $\text{CuSO}_4/\text{KMnO}_4/\text{K}_2\text{Cr}_2\text{O}_7$ in a solution of unknown concentration
- Determine the concentrations of KMnO_4 and $\text{K}_2\text{Cr}_2\text{O}_7$ in a mixture.
- Study the kinetics of iodination of propanone in acidic medium.
- Determine the amount of iron present in a sample using 1,10-phenanthroline.
- Determine the dissociation constant of an indicator (phenolphthalein).
- Study the kinetics of interaction of crystal violet/ phenolphthalein with sodium hydroxide.
- Study of pH-dependence of the UV-Vis spectrum (200-500 nm) of potassium dichromate.
- Spectral characteristics study (UV) of given compounds (acetone, acetaldehyde, acetic acid, etc.) in water.
- Absorption spectra of KMnO_4 and $\text{K}_2\text{Cr}_2\text{O}_7$ (in 0.1 M H_2SO_4) and determine λ_{max} values.

Note: Experiments may be added/deleted subject to availability of time and facilities

REFERENCE BOOKS:

1. Vogel, A.I. Quantitative Organic Analysis, Part 3, Pearson (2012).31
2. Mann, F.G. & Saunders, B.C. Practical Organic Chemistry, Pearson Education (2009)
3. Furniss, B.S.; Hannaford, A.J.; Smith, P.W.G.; Tatchell, A.R. Practical Organic Chemistry, 5th Ed., Pearson (2012)
4. Ahluwalia, V.K. & Aggarwal, R. Comprehensive Practical Organic Chemistry: Preparation and Quantitative Analysis, University Press (2000).
5. Ahluwalia, V.K. & Dhingra, S. Comprehensive Practical Organic Chemistry: Qualitative Analysis, University Press (2000)
6. Manual of Biochemistry Workshop, 2012, Department of Chemistry, University of Delhi.

Alkumar
22.06.21
(Dr. Anil Kumar)

Pradeep
20.06.2021
(Dr. C. Pradeep)

Pradeep
20.06.2021
(Dr. Pradeep Patel)

Arjun
20.06.2021

Logan
20.06.2021
Tajinder Kumar

Five experiments are to be performed.

1. **Inorganic** - Two experiments to be performed.

- Gravimetric estimation compulsory 08 marks. (Manipulation 3 marks)
- Anyone experiment from synthesis and analysis 04 marks.

2. **Organic** - Two experiments to be performed.

- Qualitative analysis of organic mixture containing two solid components.
Compulsory carrying 08 marks (03 marks for each compound and two marks for Separation).
- One experiment from synthesis of organic compound (Single step)
04 marks.

3. **Physical** - One physical experiment

12 marks.

4. **Sessional**

04 marks.

5. **Viva Voce**

10 marks.

In case of Ex-Students one mark each will be added to Gravimetric analysis and Qualitative analysis of organic mixture and two marks in Physical experiment.

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28.06.21
(Dr. Anil Kumar)

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28.06.2021
(Dr. C. Bose)

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28.06.2021
(Dr. Rajmani Patel)

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28.06.2021

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28.06.2021
Tajinder Kumar

B.SC.-III

PAPER- I (BOTANY)

(ANALYTICAL TECHNOLOGY PLANT PATHOLOGY, EXPERIMENTAL EMBRYOLOGY, ELEMENTARY BIOSTATISTICS, ENVIRONMENTAL POLLUTION AND CONSERVATION)

UNIT-I

Structure, Principle and applications of analytical instrumentation.

Chromatography technique, Oven, Incubator, Autoclave, Centrifuge, Spectrophotometer

UNIT-II

Plant Tissue culture techniques, growth media, totipotency, protoplast culture, somatic hybrids and cybrids, micropropagation, somaclonal variations, haploid culture.

Analytical techniques: Microscopy-Light microscope, Electron microscope

UNIT-III

General principles of plant pathology, general symptoms of fungal, bacterial and viral diseases, mode of infection] diseases resistance and control measures, plant quarantine. A study of epidemiology and etiology of following plant diseases.

Rust diseases of wheat, Tikka diseases of ground nut, Red rot of sugar can, Bacterial blight of rice, yellow vein mosaic of b hindi, Little Leaf of brinjal.

UNIT-IV

Introduction to pollution, green house gases, Ozone depletion, Dissolve oxygen, B.O.D., C.O.D.

Bio magnification, Eutrophication, Acid precipitation, Pytoremediation. Plant indicators, Biogeographical Zones of India, Concept of Biodiversity, CBD, MAB, National parks and biodiversity Hot spots, Conservation strategies, Red Data Book, IUCN threat categories, invasive species, endemic species. concept of sustainable development.

UNIT-V

ELEMENTARY BIOSTATISTICS:

Introduction and application of Biostatics, measure of central tendency-Mean, Median, Mode, measures of dispersal-Standard deviation, standard error.



Books Recommended:

Singh, RS, **Plant Diseases**, Oxford & IBH, New Delhi.

Pandey, BP, **Plant Pathology**, S. Chand Publishing, New Delhi

Sharma, PD, **Microbiology and Plant pathology**, Rastogi Publications, Meerut

Sharma PD, **Mycology and Phytopathology**, Rastogi Publications, Meerut

Singh JS, Singh SP and Gupta, SR, **Ecology Environmental Science and Conservation**, S. Chand Publishing, New Delhi

Sharma, PD. **Ecology and Environment**, Rastogi Publications, Meerut

Bhojwani, SS and Razdan, MK, **Plant Tissue Culture: Theory and Practices**, Elsevier

Sharma AK, **Text book of Biostatistics**, Discovery Publishing House Pvt.Ltd.

Sharma Sharma

B.SC.-III
PAPER- II (BOTANY)
(GENETICS, MOLECULAR BIOLOGY, BIOTECHNOLOGY AND
BIOCHEMISTRY)

UNIT-I

Cell and cell organelles, organization and morphology of chromosomes, giant chromosomes, cell division, Mendel's laws, gene interactions, linkage and crossing over, chromosomal aberration, polyploidy, sex linked inheritance, sex determination, cytoplasmic inheritance, gene concept: cistron muton, recon.

UNIT- II

Nucleic acids, Structure and forms of DNA and RNA, DNA/RNA as genetic material, replication of DNA, biochemical and molecular basis of mutation, genetic code and its properties, mechanism of transcription and translation in prokaryotes, regulation of gene expression, Operon model.

UNIT- III

Recombinant DNA, Enzymes in recombinant DNA technology, cloning vectors (Plasmid, Bacteriophages, Cosmids, Phagemids), gene cloning, PCR, Application of Biotechnology; G.M.Plants, Monoclonal antibodies, DNA finger printing

UNIT- IV

Protein: Chemical composition, primary, secondary and tertiary structure of Proteins.

Carbohydrate: general account of monosaccharides, disaccharids and Polsaccharides

Fat: Structure and properties of fats and fatty acids, synthesis and breakdown.

UNIT- V

ENZYMES: Nomenclature and classification, components of enzymes, theories of enzyme action, enzyme kinetics (Michaelis-Menten constant), allosteric enzymes, isozymes, Abzymes, Ribozymes, factors affecting enzyme activity.

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Books Recommended:

Nelson, DL, Cox, MM, Lehninger Principles of Biochemistry, W.H. freeman and Company, New York, USA.

Cooper, GM, The Cell: A Molecular Approach, ASM Press & Sunderland, Washington, D.C. Sinauer Associates, MA.

Singh BD, Fundamental of Genetics, Kalyani Publication

Singh BD, Genetics, Kalyani Publication

Gupta, PK, Cell and Molecular Biology, Rastogi Publications, Meerut

Singh, BD, Biotechnology: Expanding Horizons, Kalyani Publications

Gupta, PK, Elements of Plant Biotechnology, Rastogi Publications, Meerut

Gupta, SN, concepts of Biochemistry, Rastogi Publications, Meeru

Jain, JL, Jain S, Jain, N, Fundamentals of Biochemistry, S Chand Publishing, New Delhi

B.Sc.- III (Botany)

Practical

1. Study of host parasite relationship of plant diseases listed above.
2. Demonstration of preparation of Czapek's Dox medium and potato dextrose agar medium, sterilization of culture medium and pouring.
3. Inoculation in culture tubes and petriplates.
4. Gram Staining.
5. Microscopic examination of Curd.
6. Study of plant diseases as listed in the theory paper.
7. Biochemical test of carbohydrate and protein.
8. Instrumentation techniques

PRACTICAL SCHEME

TIME: 4 Hrs.

M.M.: 50

1. Plant Disease/Symptoms	10
2. Instrumentation techniques	05
3. Staining of Microbes	05
4. Tissue Culture techniques	05
5. Spotting	10
6. Project Work/ Field Study	05
7. Viva-Voce	05
8. Sessional	05



MICROBIOLOGY

BSc-3rd

Paper- I: Medical Microbiology and Immunology

UNIT-1: AIR BORNE DISEASES

Air borne diseases: Types- Tuberculosis, Pertussis, Diphtheria, Influenza, Small & Chicken pox, Mumps, Measles. Symptoms, treatment and prevention.

UNIT-2: WATER BORNE DISEASES

Concept and cause of water borne diseases; Types. Hepatitis, Dysentery, Diarrhea, Cholera, typhoid. Symptoms, treatment and prevention.

UNIT-3: CLINICAL DISEASE AND DIAGNOSIS

Clinical diseases: Diabetes, Asthma, multiple sclerosis, rheumatoid arthritis, cancer. Symptoms, Treatment and prevention.

UNIT-4: BASIC CONCEPT OF IMMUNITY

Immune system: Structure and function of the cells, tissues and organs of immune system. Types of immunity- humoral and cell-mediated, innate, acquired immunity. **Antigen- Antibody**: types, properties. Hapten, adjuvants, Immuno-globulins: Structure types, Properties and their function - Theory of antibody production.

UNIT-5: IMMUNO DISEASE DIAGNOSIS

Methods based on Ag-Ab interaction- precipitation, agglutination, ELISA, RIA, Immuno-electrophoresis, PCR based diagnosis method for infectious diseases.

Text Books Recommended:

1. Immunology: Kuby.
2. General Microbiology by Power and Daganiwala.
3. Zinssers Microbiology by K. J Wolfgang, McGraw- Hill Company.
4. Medical Microbiology; N. C. Dey and T.K. Dey, Allied agency, Calcutta.
5. Bacteriological Techniques by FJ Baker.
6. A Textbook of Microbiology; Dubey & Maheshwari; S. chand & Sons.
7. Scott's Diagnostic Microbiology by E.J Baron.

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Paper- II: Environmental, industrial and Agricultural Microbiology

UNIT-1: AIR MICROBIOLOGY

Basics of Aerobiology, Microbes in atmosphere, source of microorganism in air, droplet nuclei, infectious dust and bio-aerosol. Factors affecting microbial survival in the air. Sampling, collection and Isolation of microbes from air.

UNIT-2: WATER MICROBIOLOGY

Basic concept, water zonation, eutrophication, microbial community in natural water. Determining the quality of water- bacteriological evidence for fecal pollution, indicator of fecal pollution. Water purification methods. Disinfection of potable water supply.

UNIT-3: SOIL MICROBIOLOGY

Soil as an environmental culture medium, microbes of soil. Brief account of microbial interactions-symbiosis, mutualism, commensalism, competition, predation, parasitism. Microbiological examination of soil. Rhizosphere-concept and role of microbes, rhizosphere and non-rhizosphere micro-flora. Mycorrhiza.

UNIT-4: INDUSTRIAL MICROBIOLOGY

Introduction and brief history and scope, important microbes in various industries. Fermentation- definition, types-Aerobic and anaerobic, Batch and SSF. Important products bread, cheese, vinegar, fermented dairy products and oriented fermented food involving microbes. Microbial cells as food. SCP -mushroom cultivation, production of alcohol and fermented beverages, beer and Wine

UNIT-5: AGRICULTURAL MICROBIOLOGY

History of Agricultural Microbiology; Microbes and their importance in maintenance of soil, Biogeochemical cycles, role of microbes in maintaining the fertility of soil. Bio fertilizers -Bacterial, azotobacter and vermiform compost. Soil microorganism -association with vascular plants- phyllosphere, Rhizobium, Rhizoplane associative nitrogen fixation. Bio-fertilizers - Cyanobacterial and Azolla

Text Books Recommended:

1. Hugo, W.B., Russell, A.D, pharmaceutical Microbiology 4th edition, Blackwell scientific publications / Oxford
2. Russell and Ayliffe, G. A. J (1982) Principles and practice of Disinfection, preservation and sterilization Oxford
3. Gregory P.H. Microbiology of the atmosphere. 2nd edition. Leonard Hill.
4. Food Microbiology by WC Frazier and D Westhoff.
5. Agricultural Microbiology by Bhagyaraj and Rangaswamy.
6. Bioremediation by KH Baker and DS Herson

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DR. K. H. P. S.
29/05/2022

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PRACTICAL

M. M. 50

- Isolation of bacteria from air and soil (crop fields)
- Isolation of fungi from air and soil
- Relationship between OD and CFU measurements.
- Measurement of fungal growth by dry weight and wet weight
- Study of rhizospheric and phyllospheric microbes from economically important plants.
- Biodegradation study of some organic molecules
- Microbial assessment of potable water.
- Determination of BOD, COD and dissolved oxygen.
- Determination of blood group by slide agglutination test./TLC/DLC
- Determination of haemoglobin.
- Determination of quality of milk by MBRT
- Isolation of Rhizobium from root nodules.

Scheme of practical examination

Time	4 hour	MM- 50
1. Exercise on immunological test		10
2. Exercise on water analysis		10
3. Exercise on isolation and characterization of micro organism		05
4. Spotting (1 to 5)		10
5. Viva voce		05
6. Sessional		10
		Total- 50

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BR. KIL PATI
29/05/2021

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HEMCHAND YADAV VISHWAVIDYALAYA, DURG (C.G.)

Website - www.durguniversity.ac.in, Email - durguniversity@gmail.com



**SCHEME OF EXAMINATION
&
SYLLABUS
of
M.A. (Political Science) Semester Exam
UNDER
FACULTY OF SOCIAL SCIENCE
Session 2019-21**

**(Approved by Board of Studies)
Effective from June 2019**

M.A. Political Science

Semester-I and semester-II

PAPER	SEMESTER-I	MARKS		SEMESTER-II	MARKS	
		Theory	Internal		Theory	Internal
I	भारतीय राजनीतिक चिंतन (Indian Political Thought)	80	20	पश्चात्य राजनीतिक चिंतन (Western Political Thought)	80	20
II	भारतीय शासन एवं राजनीति (Indian Government and Politics)	80	20	भारत के राज्यों की राजनीति (State Politics in India)	80	20
III	तुलनात्मक राजनीति (Comparative Politics)	80	20	विकासशील देशों की तुलनात्मक राजनीति (Comparative Politics of Development Countries)	80	20
IV	अंतर्राष्ट्रीय संगठन (International Organization)	80	20	भारत की विदेशनीति (Indian Foreign Policy)	80	20
Total=400				Total=400		

M.A. Political Science

Semester III and Semester IV

PAPER	SEMESTER-III	MARKS		SEMESTER-IV	MARKS	
		Theory	Internal		Theory	Internal
I	अंतर्राष्ट्रीय राजनीति के सिद्धांत (Principal of International Politics)	80	20	अंतर्राष्ट्रीय राजनीति के समकालीन मुद्दे (Contemporary issues of International Politics)	80	20
II	लोकप्रशासन भाग-1 (Public Administration Part-I)	80	20	लोकप्रशासन भाग-2 (Public Administration Part-II)	80	20
III	शोध प्रविधि भाग-1 (Research Methodology Part-I)	80	20	शोध प्रविधि भाग-2 (Research Methodology Part-II)	80	20
IV	छत्तीसगढ़ का शासन एवं राजनीति (Government and Politics of Chhattisgarh)	80	20	राजनीतिक विचारधाराएं एवं आधुनिक राजनीतिक चिंतन (Political Ideologies and Modern Political Thought.)	80	20
Total=400				Project work VIVA-VOCE Total=500		

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Subramany
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नियमावली-

1. उपर्युक्त समस्त प्रश्न पत्र अनिवार्य होंगे।
2. प्रत्येक प्रश्न पत्र में (सभी सेमेस्टर में) सैद्धान्तिक परीक्षा में 80 पूर्णांक होगा और 20 अंको का आन्तरिक मूल्यांकन होगा। इस प्रकार सभी प्रश्न पत्र में पूर्णांक 100 होगा।
3. प्रत्येक प्रश्न पत्र में आन्तरिक मूल्यांकन होगा की दो परीक्षाएं होगी जिसके सर्वोच्च अंक विश्वविद्यालय के प्रेषित किए जाएंगे।
4. प्रथम, द्वितीय और तृतीय सेमेस्टर में पूर्णांक 400 होगा। चतुर्थ सेमेस्टर में पूर्णांक 500 होगा।
5. एम. ए. चतुर्थ सेमेस्टर में 100 अंको की मौखिक परीक्षा होगी जिसमें 50 अंक परियोजना कार्य पर होंगे और 50 अंको की मौखिक परीक्षा होगी।
6. परियोजना कार्य - कौशल विकास, रोजगार मुखी, ग्रामीण विकास, देश के महापुरुष, प्रमुख राजनीतिज्ञ, राष्ट्रपति, प्रधानमंत्री, छत्तीसगढ़ की राजनीति और शासन व्यवस्था पर आधारित होगा।
7. इस प्रकार एम.ए. राजनीति विज्ञान में कुल पूर्णांक 1700 होगा।
8. प्रत्येक प्रश्न पत्र 4 इकाइयों में विभाजित होगा।

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एम.ए. (राजनीति विज्ञान-प्रथम सेमेस्टर)
M.A. (Political Science-First Semester)

प्रथम प्रश्न पत्र

भारतीय राजनीतिक चिंतन
(Indian Political Thought)

इकाई-1	कौटिल्य, स्वामी विवेकानंद, बालगंगाधर तिलक के विचार (KAUTILYA, SWAMI VIVEKANAND AND BAL GANGADHAR TILAK)
इकाई-2	डॉ. भीमराव अम्बेडकर, महात्मा गांधी, गोपाल कृष्ण गोखले के विचार (THOUGHT OF DR. BHIMRAO AMBEDKAR, MAHATMA GANDHI AND GOPAL KRISHNA GOKHLE)
इकाई-3	राजाराम मोहन राय, राममनोहर लोहिया, मानवेन्द्र नाथ राय, जयप्रकाश नारायण के विचार (THOUGHT OF RAJA RAM MOHAN ROY, RAM MANOHAR LOHIA, MANVENDRA NATH ROY, JAIPRSKASH NARAYAN)
इकाई-4	जवाहर लाल नेहरू, दीनदयाल उपाध्याय एवं मौलाना अबुल कलाम आजाद के विचार (THOUGHT OF JAWAR LAL NEHRU, DINDYAL UPADHYAY, MOULANA ABUL KALAM AZAD.)

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एम.ए. (राजनीति विज्ञान-प्रथम सेमेस्टर)
M.A. (Political Science-First Semester)

द्वितीय प्रश्नपत्र

भारतीय शासन एवं राजनीति

(Indian Government and Politics)

इकाई-1	भारतीय संविधान की पृष्ठभूमि, संगठन, कार्यप्रणाली वैचारिक आधार, स्रोत प्रस्तावना, भारतीय संविधान की विशेषताएँ (BACKGROUND OF INDIAN CONSTITUTION, ORGANIZATION IDEOLOGICAL BASIS SOURCE, PREAMBLE, FEATURES OF INDIAN CONSTITUTION)
इकाई-2	मौलिक अधिकार, कर्तव्य, नीति निर्देशक सिद्धांत, संविधान संशोधन प्रक्रिया, केन्द्र -राज्य सम्बन्ध, जम्मू कश्मीर एवं धारा 370 तथा 35-A] छठवीं अनुसूची (FUNDAMENTAL RIGHTS AND DUTIES, DIRECTIVE PRINCIPLES, STATE POLLEY, CONSTITUTION AMENDMENT PROCESS, CENTRE- STATE RELATION, JAMMUKASHMIR AND ARTICLE 370 AND 35 A, 6 th SCHEDULE OF THE CONSTITUTION.)
इकाई-3	संघीय व्यवस्थापिका - लोक सभा, राज्य सभा, संघीय कार्यपालिका - राष्ट्रपति, प्रधानमंत्री एवं मंत्री परिषद। (UNION LEGISLATURE - LOK SABHA, RAJYA SABHA, UNION EXECUTIVE PRESIDENT, PRIME MINISTER AND COUNCIL OF MINISTERS)
इकाई-4	संघीय न्यायपालिका - सर्वोच्च न्यायलय एवं न्यायिक पुनरावलोकन। भारतीय राजनीति - जातिवाद, क्षेत्रवाद, धर्म एवं सम्प्रदायवाद, राजनीति का अपराधीकरण एवं भ्रष्टाचार (UNION JUDICIARY- SUPREME COURT AND JUDICIAL REVIEW, INDIAN POLITICS-CASTISM, REGIONALISM, RELIGION AND COMMUNALISM, CRIMINALISATION OF POLITICS AND CORRUPTION.

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एम.ए. (राजनीति विज्ञान-प्रथम सेमेस्टर)
M.A. (Political Science-First Semester)

तृतीय प्रश्न पत्र

तुलनात्मक राजनीति

(Comparative Politics)

ईकाइ-1	तुलनात्मक राजनीति अर्थ, प्रकृति क्षेत्र एवं समस्याएं। राजनीतिक व्यवस्था का अर्थ, विशेषताएँ एवं महत्त्व। (Comparative Politics Meaning, Nature, Scope and Problems, Political System Concept, Features and Importance.)
ईकाइ-2	राजनीति व्यवस्था के अध्ययन के उपागम-डेविड ईस्टन का आगत निर्गत सिद्धांत, आमण्ड एवं पावेल का संरचनात्मक प्रकार्यात्मक सिद्धांत, संविधान एवं संविधानवाद (Approaches to the Study of Political System, Input-Output Theory of David Easton, Amond and Powell's Structural Functional Theory, Constitution and constitutionalism.)
ईकाइ-3	परम्परागत एवं आधुनिक राजनीतिक अध्ययन की विशेषताएँ, व्यवहारवाद एवं उत्तर व्यवहारवाद, राजनीतिक सिद्धांत- अवधारणा, राजनीतिक सिद्धांत का पतन एवं पुनर्जीवन। (Characteristics of Traditional and Modern Political Studies Behaviouralism and Post Behaviouralism, Political Theory- Concept Decline of Political Theory and reestablishment of Political Theory)
ईकाइ-4	राजनीतिक संस्कृति, राजनीतिक समाजीकरण, राजनीतिक संचार, (Political culture, Political Socialisation, Political Communication)

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एम.ए. (राजनीति विज्ञान-प्रथम सेमेस्टर)
M.A. (Political Science-First Semester)

चतुर्थ प्रश्न पत्र

अंतर्राष्ट्रीय संगठन

(International Organization)

इकाई-1	अंतर्राष्ट्रीय संगठन की प्रकृति एवं विकास अंतर्राष्ट्रीय संगठन राष्ट्र-राज्य, अंतर्राष्ट्रीय व्यवस्था, राज्यों के बीच समन्वय । (Nature and Evolution of International Organization Coordination among Nations , Nation State, and International System)
इकाई-2	राष्ट्र संघ-निर्माण, संरचना, कार्य, सफलता एवं असफलता एवं मूल्यांकन (League of Nation-Formation, Function, Achievements, Merits and Demerit and evaluation.)
इकाई-3	संयुक्त राष्ट्र संघ निर्माण, संरचना, विवादों के समाधान के शान्तिपूर्ण एवं बाध्यकारी उपाय, आर्थिक एवं सामाजिक विकास में संयुक्त राष्ट्र संघ की भूमिका । (United Nation-Formation Structure, Peace and Coercive Measures to Settle the Disputes in United Nations The role of UN to Social and Economic Development)
इकाई-4	क्षेत्रीय संगठन-साक, आसियान, युरोपियन यूनियन, ब्रिक्स (Regional Organization-SAARC, ASEAN, EUROPEAN UNION, BRICS)

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एम.ए. (राजनीति विज्ञान-द्वितीय सेमेस्टर)
M.A. (Political Science-Second Semester)

प्रथम प्रश्न पत्र

पाश्चात्य राजनीतिक चिंतन
(Western Political Thought)

इकाई-1	प्लेटो, अरस्तु, मैकियावेली (Plato, Aristotle, Machiavelli)
इकाई-2	जीन बॉदा, थामस हॉब्स, जान लॉक, जीन जैक्स रूसो, (Jean Bodin, Thomas Hobbes, John Luck, Jaen Jacous rousseau)
इकाई-3	बेथम, जे. एस. मिल, टी.एच. ग्रीन (Bentham, J.S. Mill, T.H. Green)
इकाई-4	हिगेल, माक्स, लेनिन, माओ, (Hegel, Marx, Lenin, Mao)

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एम.ए. (राजनीति विज्ञान—द्वितीय सेमेस्टर)
M.A. (Political Science—Secound Semester)

द्वितीय प्रश्न पत्र

भारत में राज्यों की राजनीति
(State Politics in India)

ईकाइ-1	राज्य की कार्यपालिका: राज्यपाल, मुख्यमंत्री एवं मंत्री परिषद। (State Executive: GOVERNOR, CHIFE MINISTER and Council of Ministers)
ईकाइ-2	राज्य की व्यवस्थापिका: विधानसभा एवं विधान परिषद। राज्य की न्यायपालिका: उच्च न्यायालय एवं अधिनस्थ न्यायालय। (State Legislature: Vidhan Sabha and Vidhan Parishad State Judiciary: High Court and Subordinate Courts)
ईकाइ-3	राज्य स्वायत्ता की मांग, नये राज्यों के गठन कर मांग, अंतरराज्यीय नदी जल विवाद, भारत में राज्य राजनीति को प्रभावित करने वाले कारक। (Demand for State Autonomy, Demand For the Creation of New State, Inter State Disputes, Factors influencing State Politics in India)
ईकाइ-4	राज्य योजना आयोग, राज्य वित्त आयोग, राज्य निर्वाचन आयोग राज्य राजनीति की प्रमुख प्रवृत्तियों। (State Planning commission, State Finance Commission State Election Commission, Trends in State Politics of India.)

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तृतीय प्रश्न पत्र

विकासशील देशों की तुलनात्मक राजनीति
(Comparative Politics of Developing Countries)

इकाई-1	सरकारों का वर्गीकरण- एकात्मक-संघात्मक, संसदीय - अध्यक्षतात्मक सरकार, संघवाद। Classification of Government- Unitary, Federal, Parliamentary, Presidential, Federalism)
इकाई-2	राजनीतिक संस्थाएँ- व्यवस्थापिका, कार्यपालिका एवं न्यायपालिका, शक्ति पृथक्करण सिद्धांत। Political Institutions- Legislature, Executive and Judiciary, Theory of Separation of Powers)
इकाई-3	राजनीतिक दल एवं दबाव समूह, नौकरशाही संरचना कार्य एवं भूमिका। (Political Parties and Pressure Groups Bureaucracy- Structure Function and Role)
इकाई-4	राजनीतिक विकास, राजनीति अभिजन, राजनीतिक समाजीकरण, राजनीतिक आधुनिकीकरण। (Political Development, Political Elites, Political Socialisation, political Modernization.)

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M.A. (Political Science-Secound Semester)

चतुर्थ प्रश्न पत्र

भारत की विदेश नीति

(Indian Foreign Policy)

ईकाइ-1	विदेश नीति: अर्थ, प्रकृति एवं निर्धारण तत्त्व भारतीय विदेशनीति के निर्धारण तत्त्व आन्तरिक एवं बाह्य भारतीय विदेशनीति के सिद्धांत एवं उद्देश्य। Foreign Policy: Meaning, Nature and Determinants Determinants of Indian Foreign Policy: Internal and External Principles and Objectives of Indian Foreign Policy
ईकाइ-2	भारत और अमेरिका, भारत एवं रूस। (India and the USA, India and Russia)
ईकाइ-3	भारत एवं पाकिस्तान, भारत एवं चीन, भारत एवं श्रीलंका। (India and Pakistan, India and China, India and Srilanka)
ईकाइ-4	भारत एवं संयुक्त राष्ट्र संघ भारत एवं आण्विक निःशस्त्रीकरण India and the U.N.O India and Nuclear Disarmament

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M.A. (Political Science-Third Semester)
प्रथम प्रश्न पत्र

अंतर्राष्ट्रीय राजनीति के सिद्धांत
(Principles of International Politics)

ईकाई-1	अंतर्राष्ट्रीय राजनीतिका विषय के रूप में विकास, प्रकृति एवं क्षेत्र। अध्ययन पद्धति-परम्परागत एवं वैज्ञानिक। (Evolution of International Politics as discipline, Nature, Scope, Method of Study-Traditional and Scientific.)
ईकाई-2	अंतर्राष्ट्रीय राजनीति के सिद्धांत - यथार्थवाद, आदर्शवाद, साम्यावस्था, निर्णय-निर्माण, खेल, संचार एवं व्यवस्था सिद्धांत (Theories of International Politics, Realism Idealism, Equilibrium, Decision making, Game, communication & System Theory.)
ईकाई-3	शक्ति की अवधारणा राष्ट्रीय शक्ति के तत्व एवं सीमाएं। शक्तिसंतुलन। सामूहिक सुरक्षा-नव साम्राज्यवाद राष्ट्रहित और अंतर्राष्ट्रीय विचारधारा एवं नैतिकता। (Concept of Power-Elements and limitations of National Power-Balance of Power-Collective Security, New colonialism, National Interest and International Ideology and Morale.)
ईकाई-4	निःशस्त्रीकरण, परमाणु अग्रसार-सी टी बी टी, एन पी टी, क्षेत्रीय संगठन-सार्क, एसिआन, ओपेक। (Disarmament, Nuclear Non Proliferation-CTBT NPT, Regional Organization-SAARC, ASEAN, OPEC.)

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एम.ए. (राजनीति विज्ञान-तृतीय सेमेस्टर)
M.A. (Political Science-Third Semester)
द्वितीय प्रश्नपत्र

लोक प्रशासन भाग-1
(Public Administration) Part-I

इकाई-1	लोकप्रशासन: परिभाषा, प्रकृति, क्षेत्र, निजी प्रशासन से अंतर अध्ययन के उपागम-व्यावहारिकवादी, तुलनात्मक, निर्णय परक, विकास-प्रशासन, नवीन लोकप्रशासन (Public Administration-Definition, Nature, Scope, Difference between Private Administration; Approaches to Study- Behaviouralism, Comparative, Decision Making, Development Administration, New Public Administration.)
इकाई-2	संगठन के सिद्धांत: नियंत्रण का क्षेत्र, आदेश की एकता, पदसोपान, प्रत्यायोजन, समन्वय। (Theory of Organization:-Hierarchy,Unity of Command Span of Control, Delegation of Power, Coordination.)
इकाई-3	केन्द्रीयकरण, विकेन्द्रीकरण, मुख्य कार्यपालिका-प्रकार एवं भूमिका, सूत्र एवं स्टाफ अभिकरण, विभागीय संगठन, स्वतंत्र नियामकीय आयोग। (Centralisation and Decentralisation, Chief Executive- Types and Role. Line and Staff Agencies, Departmental Organization, Independent Regulatory Commission.)
इकाई-4	लोक निगम भर्ती, पदोन्नति, प्रशिक्षण, संवानिवृत्ति, संघ लोक सेवा आयोग, नौकरशाही। (Public Corporation, Recruitment, Promotion and Training, Retirement, Union Public Service Commission, Bureaucracy.)

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M.A. (Political Science-Third Semester)

तृतीय प्रश्न पत्र

शोध प्रविधि भाग-I

(Research Methodology Part I)

इकाई-1	सामाजिक शोध की प्रकृति, महत्व एवं उपयोग शुद्ध एवं व्यावहारिक शोध समस्या की पहचान, शोध अभिकल्प, उपकल्पना का निर्माण एवं परीक्षण। (Nature of Social Research, Importance and uses, Difference between Pure and Applied Research, Identification of Research Problem Research Design, Hypotheses Formulation and testing.)
इकाई-2	सामाजिक सर्वेक्षण-उद्देश्य, महत्व, प्रक्रिया, तथ्य संकलन की तकनीक, तथ्यों के प्राथमिक एवं द्वितीय स्रोत। (Social Survey- Aims, Importance, process, Data Collection, Primary and Secondary Source of Facts.)
इकाई-3	अवलोकन पद्धति, साक्षात्कार पद्धति, प्रश्नावली एवं अनुसूची। (Observational Method, Interview Method, Questionnaire and Schedules.)
इकाई-4	अध्ययन के विभिन्न प्रकार-पैनल स्टडी, केस स्टडी क्षेत्रीय अध्ययन। (Types of Study- Panel , Case and Field Study)

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एम.ए. (राजनीति विज्ञान-तृतीय सेमेस्टर)
M.A. (Political Science-Third Semester)

चतुर्थ प्रश्नपत्र

छत्तीसगढ़ का शासन एवं राजनीति

(Government And Politics of Chhattisgarh)

इकाई-1	<p>छत्तीसगढ़ में राष्ट्रीय आंदोलन- 1855 से 1947 - असहयोग आंदोलन, सविनय अवज्ञा आन्दोलन और भारत छोड़ो आन्दोलन।</p> <p>National Movement in Chhattisgarh from. 1885 to 1947- Nonco- Opration Movement, Civil Disobidience Movement and Quit India Movement.</p>
इकाई-2	<p>प्रमुख महापुरुष - गुरुघासीदास, पं. सुंदरलाल शर्मा, ठाकुर प्यारेलाल सिंह, डॉ. खूबचंद बघेल का योगदान</p> <p>Major Social Reformist and Political Leaders- Guru Ghasidas, Pt. Sunder Lal Sharma, Thakur Pyare Lal Singh, Dr. Khubhchand Baghel and Their Contribution.)</p>
इकाई-3	<p>छत्तीसगढ़ राज्य निर्माण हेतु आन्दोलन एवं राज्य निर्माण</p> <p>छ.ग. में स्थानीय स्वशासन - ग्राम पंचायत, नगर पंचायत एवं नगर निगम का संगठन, कार्य अधिकार एवं स्थिति।</p> <p>छ.ग. में जनजातीय क्षेत्रों का प्रशासन- संवैधानिक प्रावधान, पांचवी अनुसूची के अंतर्गत प्रशासित क्षेत्र, बस्तर एवं सरगुजा विकास प्राधिकरण</p> <p>Formation of Chhattisgarh State and Political Movement For it, Local Self Govt. In Chhattisgarh- Gram Panchayat, Nagar Panchayat, Nagar Nigam - Organisation Function and Status. Tribal Area Administration in Chhattisgarh - Constitutional Provision, area Under 5th Schedul in C.G., Sarguja And Baster Vikas Pradhikaran.</p>
इकाई-4	<p>छत्तीसगढ़ की राजनीति के प्रमुख निर्धारक तत्व एवं विशेषताएं।</p> <p>छ.ग. में जिला प्रशासन एवं जिलाधीश की भूमिका</p> <p>छ.ग. में विकास प्रशासन - जिला पंचायत CEO, कार्य, अधिकार एवं भूमिका। शासन की प्रमुख विकास योजनाएं।</p> <p>(Main Determinating Factors and Features of State Politics in Chhattisgarh. Role Of Collector In Distict Administration. Role of Zila Panchayat CEO in Development Administration, Main Development Plans For State.)</p>

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एम.ए. (राजनीति विज्ञान-चतुर्थ सेमेस्टर)

M.A. (Political Science-Fourth Semester)

प्रथम प्रश्न पत्र

अंतर्राष्ट्रीय राजनीति के समाकालीन मुद्दे

(CONTEMPORARY OF INTERNATIONAL POLITICS)

इकाई-1	अंतर्राष्ट्रीय राजनीति में असंलग्नता-आधार, भूमिका, महत्व एवं प्रासंगिकता। (Non-Alignment in International Politics Basis, Role, Importance and Relevance.)
इकाई-2	शीतयुद्ध एवं शीतयुद्ध की समाप्ति- कारण एवं परिणाम। नई विश्व व्यवस्था (Cold War and End of Cold War- Cause and results. New World Order.)
इकाई-3	उत्तर शीतयुद्ध कालीन महत्वपूर्ण मुद्दे- वैश्वीकरण, मानवाधिकार, पर्यावरण, आतंकवाद (Important issues in post cold war era- Globalisation, Human Rights, Environment, Terrorism.)
इकाई-4	प्रमुख राष्ट्रों की विदेश नीतियां-भारत, संयुक्त राज्य अमेरिका, चीन, रूस (Foreign Policy of Important Countries India, USA, China and Russia.)

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एम.ए. (राजनीति विज्ञान-चतुर्थ सेमेस्टर)
M.A. (Political Science-Fourth Semester)

द्वितीय प्रश्न पत्र
लोक प्रशासन भाग-II
(Public Administration) Part-II)

इकाई-1	कार्मिक समस्या निवारण व्यवस्था (भारतीय प्रशासन के विशेष संदर्भ में)। Personnel Administration- System to Solve the Problem of Personnel (In reference to Indian Administration.)
इकाई-2	वित्तीय प्रशासन: अर्थ, प्रकृति, विशेषण। बजट-सिद्धांत एवं महत्त्व, भारत में बजट निर्माण प्रक्रिया, कार्यपालिका एवं न्यायपालिका का प्रशासन पर नियंत्रण। (Finance Administration, Nature, Characteristics, Budget- Theory and Importance; Budget making process in India; Control over administration by Executive and judiciary.)
इकाई-3	प्रशासनिक व्यवहार-नेतृत्व, निर्णय, संचार जवाबदेहिता। (Administration Behaviour, Leadership, Decision making, Communication and Accountability.)
इकाई-4	लोक प्रशासन में भ्रष्टाचार आम्बुड्समैन, लोकपाल, लोकायुक्त। प्रशासन में स्थानीय स्वायत्तशासीत संस्थाओं की भूमिका। (Corruption in Administration, Ombudsman, Lokpal, Lokayukt., Role of Local Autonomous Institutions in Administration)

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एम.ए. (राजनीति विज्ञान-चतुर्थ सेमेस्टर)
M.A. (Political Science-Fourth Semester)

तृतीय प्रश्न पत्र
शोध प्रविधि भाग-II

(Research Methodology Part II)

इकाई-1	निदर्शन, अनुमापन प्रविधियों, प्रक्षेपी प्रविधियों (Sampling, Sealing Techniques, Projections Techniques.)
इकाई-2	अनुसंधान दल, अनुसंधान की समस्या, तथ्यों का वर्गीकरण एवं सारणीयन (Research Team, Problems of Research, Classification of Facts and Tabulation.)
इकाई-3	तथ्यों का विश्लेषण एवं व्याख्या । प्रतिवेदन लेखन तथ्यों को चित्रमय प्रदर्शन । (Analysis and Interpretation of Facts. Report writing Reprographic Presentation of Data.)
इकाई-4	सामाजिक अनुसंधान में संख्यिकी का प्रयोग एवं सीमाएं । मीन, मोड, मीडियम कम्प्युटर का उपयोग । (The use and limitation of Statistics. Mean Mode, Medium, and Use of computer.)

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एम.ए. (राजनीति विज्ञान-चतुर्थ सेमेस्टर)
M.A. (Political Science-Fourth Semester)

चतुर्थ प्रश्नपत्र

राजनीतिक विचारधाराएं एवं आधुनिक राजनीतिक चिन्तन
(Political Ideologies and Modern Political Thought)

इकाई-1	<p><u>व्यक्तिवाद उदारवाद</u> - मूल सिद्धांत - गुणदोष <u>समकालीन उदारवाद</u> - प्रमुख विचारक- <u>जान राल्स</u> - न्याय की अवधारणा। <u>सी.बी. मैक्फर्सन</u> - लोकतंत्र का सिद्धांत, स्वत्वमूलक, व्यक्तिवाद। <u>Individualism and Liberalism</u> - Concept, Main Theories Merits and Demerits. <u>Contemporary Liberalism</u>, Main Thinkers. <u>John Rawls</u> - Concept of Justice. <u>C.B. Mepherston</u> - Democracy, Possessive Individulism</p>
इकाई-2	<p><u>अस्तित्ववाद</u> - अवधारणा, ज्यां पाल सार्त्र का योगदान <u>फांसीवाद</u> - अवधारणा - प्रमुख विशेषताएं। <u>कार्ल पॉपर</u> - खुले समाज का विश्लेषण, इतिहासवाद का खण्डन। <u>Existentialism</u> - Concept, Jean Paul Sartre. <u>Fascim</u> - Concept, Main Features. <u>Karl Popper</u> - Description of open society, Criticism of Historism</p>
इकाई-3	<p><u>सर्वाधिकारवाद</u> - अवधारणा, प्रमुख विशेषताएं। <u>समकालीन स्वतंत्रता</u> - आइजा कर्लिन एवं मिल्टन फ्रीडमैन। <u>लियो स्ट्रास</u> - समकालीन लोकतंत्र की आलोचना, शास्त्रीय - राजनीतिक सिद्धांत का समर्थन। <u>नारीवाद</u> - अवधारणा, विशेषताएं। <u>Totalitarianism</u> - Concept - Main Features. <u>Contemporary Liberty</u> - Isaihberin And Milton Friedman. <u>Leo Straus</u> - Criticism of Democracy, Defence of Classical Political Theory. <u>Faminism</u> - Conecept, Features.</p>
इकाई-4	<p><u>समकालीन मार्क्सवाद</u> - एण्टोनियो ग्राम्शी - प्रभुत्व की अवधारणा, बुद्धिजीवियों की भूमिका। <u>फ्रैंकफर्ट स्कूल</u> - परिचय, सभी प्रकार के प्रभुत्व का विरोध। <u>समाजवाद</u> - अवधारणा, विशेषताएं। <u>बहुसंस्कृतिवाद</u> - अवधारणा, विशेषताएं। <u>Contemporary Marxism</u> - Antonio Gramsci- Concept of Hegemony, Role of Intellectuals. <u>Frankfurt School</u> - Introduction, Criticism of All Kinds of Hegemony. <u>Socialism</u> - Concept, Features. <u>Multiculturalism</u> - Conecept and Features.</p>

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**HEMCHAND YADAV VISHWAVIDYALAYA, DURG
(C.G.)**

Website - www.durguniversity.ac.in, Email - durguniversity@gmail.com



**SCHEME OF EXAMINATION
&
SYLLABUS
of
M.A./M.Sc.(Geography) Semester Exam
Session 2021-22**

**(Approved by Board of Studies)
Effective from July 2021**

Hemchand Yadav Vishwavidyalaya, Durg (C.G.)

M.A./M. Sc. GEOGRAPHY

SEMESTER I (2021-22)

M. A. /M. Sc. Geography Semester I shall consist the following papers:

S. No.	Paper	Title	M. M.		
			Written	Inte. Asse.	Total
1.	I	Geomorphology	80	20	100
2.	II	Climatology	80	20	100
3.	III	Geographical Thought	80	20	100
4.	IV	Geography of India	80	20	100
5.	V	Practical-I : Advanced Cartography	—	—	100

1. The M. A. /M. Sc. Semester I examination in Geography shall consist of 500 marks. There shall be four theory papers each of 100 marks and one practical of 100 marks as follows:

- Paper I Geomorphology
Paper II Climatology
Paper III Geographical Thought
Paper IV Geography of India
Paper V Practical-I: Advanced Cartography

2. The theory papers shall be of three hours duration.
3. Candidates will be required to pass separately in theory and practical examinations.

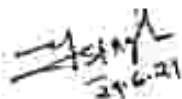
4. (a) In the practical examination the following shall be the allotment of time and marks.

- | | | |
|-------|------------------------------|-----|
| (i) | Practical record | 20% |
| (ii) | Lab work (up to three hours) | 70% |
| (iii) | Viva on i. ii. | 10% |

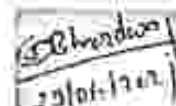
(b) The external and internal examiners shall jointly submit marks.

(c) All the candidates shall present at the time of the practical examination their practical record regularly signed by the teachers concerned.


Dr. Swarnima Singh


29.6.21


Dr. Swarnima Singh


29/06/2021


27.6.2021
Dr. Swarnima Singh

PAPER-I
GEOMORPHOLOGY

- UNIT - I** Nature and scope of Geomorphology; Fundamental concepts; Interior of the earth; Earth movement: epirogenic and orogenic movements With reference to the evolution of the Himalaya: Forces of Crustal instability, Isostasy, Geosyncline, Plate tectonic, Mountain building, Earthquake and Vulcanicity.
- UNIT - II** Exogenic processes: concept of gradation; Agents and processes of gradation: weathering, wasting and erosion, aggradation; Climatic Geomorphology and morphogenetic regions; slope evolution, Arid Semi-Arid and Karst topography.
- UNIT - III** Concept of Geomorphic cycle and its controversy; Dynamic of glacial and periglacial processes and resulting landforms, Complications of fluvial geomorphic cycle and resulting landforms.
- UNIT - IV** Geological structure and landform; development of landscape and drainage on unichinal, folded and domal structures and Erosion surfaces, Applied Geomorphology.

SUGGESTED READINGS:

1. Ahnmed, E.: Coastal Geomorphology of India.
2. Chorley, R. J.: Spatial Analysis in Geomorphology, Methuen, London, 1972.
3. Cooke R.H. and Doornkamp, J.C. : Geomorphology in Environmental Management. An Introduction, Clarendon press, Oxford, 1974.
4. Dury, G.H.: The Face of the Earth, Penguin Harmondsworth 1959.
5. Fairbridge, R.W. Encyclopedia of Geomorphology, Reinholdts, New York, 1968.
6. Goudie, A. : The Nature of the Environment Oxford & Blackwell, London, 1993.
7. Garner, H.F. : The Origin of landscape- A Synthesis of Geomorphology, Oxford University Press. London, 1974.
8. Holms, A.: Principles of Physical Geology, Thomas Nelson, London.
9. Mitchell, C.W.: 'Terra.ii' Evaluation. Longman, London, 1973.
10. Oilier, C.D. : Weathering, Longman, London, 1979.
11. Pitty, A.F.: Introduction to Geomorphology, Methuen, London, 1971.
12. Stoddart, D.R. (ed.) : Process and Form in Geomorphology, Roulledge, New York, 1996.
13. Skinner, B.J. & Porter, S.C.: The Dynamic Earth John Wiley. New York, 1995.
14. Sparks, B.W. Geomorphology, Longman, London, 1960.
15. Sharma, H.S. (ed.): Perspective in Geomorphology, Concept, New Delhi, 1980.
16. Singh, S : Geomorphology, Prayag Publication, Allahabad, 1998.
17. Steers, J.A. : The Unstable Earth Methuen, London.
18. Thornbury, W.L). Principles of Geomorphology, John Wiloy, New York, 1960.
19. Strahler, A.N.: Physical Geography, Willey, New York,
20. कौशिक,एस.डी.: भू-आकृति विज्ञान
21. नेगी, वी.एस. भू-आकृति विज्ञान
22. दयाल परमेश्वर, भू-आकृति विज्ञान
23. यादव तथा रामसुरेश, भू-आकृति विज्ञान, ग्रनधि, फानपुर
24. सिंह,सविन्द्र के. भू-आकृति विज्ञान, शारदा पुस्तक भवन, इलाहाबाद



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PAPER - II
CLIMATOLOGY

- UNIT – I Nature and scope of climatology and its relationship with meteorology; composition of atmosphere; Insolation, heat balance of the earth, stability and instability, greenhouse effect, vertical and horizontal distribution of temperature.
- UNIT – II Jet stream; General circulation in the atmosphere; Acid rain; concept of air masses and Front. EL Nino and La Nino. Monsoon winds and cyclones.
- UNIT – III The application of general principles of elementary physical and synoptic meteorology to the study and classification of climate. Climatic classification of Koeppen and Thornthwaite. Major climate of the world-tropical, temperate, desert and mountain climate.
- UNIT – IV Climatic changes during geological and historical times; evidences, possible causes, global warming, Applied climatology.

SUGGESTED READINGS:

1. Barry, R.G. and Chorley P..1.; Atmosphere, Weather and Climate, Roulledge, London and New York, 1998.
2. Critchfield, J.H. : General Climatology, Prentico Hall, India, New Delhi, 1993.
3. Das, P.K. : Monsoons National Book Trust, New Delhi, 1987.
4. Fein, J.S. and Stephens, P.N. : Monsoons: Wiley Interscience, 1987.
5. India Met. Deptt : Climatological Tables of Observatories in India, Govt. of India 1968.
6. Lal, D.S. : Climatology, Chaitanaya Publications, Allahabad, 1986.
7. Lydolph, P.H. : The Climate of the Earth, Rowiman, 1985.
8. Menon, P.A. : Our Weather, N.B.T., New Delhi, 1989.
9. Pelerson, S. : Introduction to Meteorology, Me G-r-aw Hill Book, London, 1969.
10. Robinson, P.J. and Henderson S. : Contemporary Climatology, Henlow, 1999.
11. Thompson, R.D. and Perry, A (ed.) : Applied Climatology, Principles and Practice. Raoulledge, London. 1997.
12. तिवारी अनिल कुमार : जलवायु विज्ञान, राजस्थान हिन्दी ग्रंथ अकादमी
13. सिंह,सचिन्द्र, प्रवालिपग पब्लिकेशन्स, इलाहाबाद



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PAPER - III
GEOGRAPHICAL THOUGHT

- UNIT - I** The Field of geography, its place in the classification of science, geography as a social science, and natural science. Definition, scope and functions of geography; Geography as science of relationship, as science of areal differentiation, as spatial science, Spatial Organization, Geography and environmentalism: forms of man-nature relationship and current view; Dualism in geography; Regional Concept.
- UNIT - II** The growth of geographical knowledge from earliest times up to the 15th century. Contributions of Greek and Roman thinkers. Geographical information in Ancient Indian literature. The Great Age of Maritime Discovery and Exploration. Contributions of various schools of thought in modern Geography:
(i) German School - A.V. Humbolt, Carl Ritter, Friedrich Ratzel
(ii) French School - Vidal-De- Blache, Jean Brunhes
(iii) British School - H.J. Mackinder, L.D. Stamp
(iv) American School - E.C. Semple, G. Taylor
- UNIT - III** Scientific explanations: routes to scientific explanation (inductive/deductive); Type of explanation: cognitive description, cause and effect, temporal, functional/ecological, systems; Laws, theories and models in geography; Quantitative revolution and philosophy of positivism.
- UNIT - IV** Responses to positivism, behaviourism and humanistic, relevance movement and radical geography; Changing paradigms; Status of Indian Geography; Future of Geography.

SUGGESTED READINGS:

1. Abler, Ronald; Adams, John S. Gold, Peter: Spatial Organization: The Geographer's view of the world. Prentice Hall, N.J. 1971.
2. Ali S.M. : The Geography of Puranas, Peoples Publishing House, Delhi, 1968.
3. Arnedo, Douglas : An Introduction to Scientific Reasoning in Geography, John Wiley, U.S.A. 1971.
4. Dikshit, R.D. (ed.): The Art & Science of Geography Rand Me Nally & Co., 1959.
5. Hartshorne, R.: Perspectives on Nature of Geography Rand Me Nally & Co., 1959.
6. Husain, M. : Evolution of Geographic Thought, Rawat Pub., Jaipur, 1984.
7. Johnston, R.J.: Philosophy and Human Geography, Edward Arnold, London, 1983.
8. Johnston, R.J.: The Future of Geography, Methuen, London, 1988.
9. Minshull, R.: The Changing Nature of Geography, Hutchinson University Library, London, 1970.
10. Ali, S. M- Arab Geography.
11. Taylor, G.: Geography in the 20th Century.
12. Dikshit, R.D.: Geographical Thought : A Contextual History of Ideas, Prentice Hall of India, New Delhi.
13. Harvey D. : Explanation in Geography.
14. सिंह उज्जगर : भौगोलिक चिन्तन का विकास
15. त्रिपाठी एवं बिरसे: भौगोलिक चिन्तन का विकास एवं विधितंत्र
16. कौशिक, एस.डी. : भौगोलिक विचारधाराओं का इतिहास एवं विधितंत्र
17. सिंह, जगदीश : भौगोलिक चिन्तन का मूलभूत.



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PAPER – IV

GEOGRAPHY OF INDIA

- UNIT – I Physical and Biological elements in the Geography of India: Geological structure, relief, climate, Drainage, vegetation and soils.
- UNIT – II Agriculture: Major characteristics and problems, Impact of infrastructural and institutional factors on agriculture. Important crops-wheat, rice, cotton, sugarcane, oil-seeds, tea and coffee, Agricultural regions. Green revolution, Agro-climatic regions.
- UNIT – III Sources of power: Coal; Petroleum, Natural gas. Hydroelectricity and Atomic energy. Mineral resources with special reference to iron ore, manganese and bauxite. Industrial development with special reference to iron and steel, cement, cotton, jute, sugar and paper industries; Industrial regions.
- UNIT – IV Regional division of India: Purpose and Methodology. Major schemes of regions of India: O.H.K. Spate and R.L. Singh. Physical and cultural geography of Chhattisgarh State.

SUGGESTED READINGS:

1. Centre for Science & Environment (1988) State of India's Environment, New Delhi.
2. Desphande C.D. India. : a Regional Interpretation ICSSR & Northern Book Centre 1992.
3. Dreza, Jean & AMartya. Sen (ed.) India Economic Development and Social opportunity Oxford University Person, New Delhi, 1996.
4. Kundu A. Raza Moonis ; Indian Economy : the Regional Dimension Spectraum Publishers, New Delhi, 1992.
5. Robinson, Frances : The Cambridge Encyclopedia of India, Pakistan, Bangladesh, Sri Lanka, Nepal, Bhutan & Maldives Cambridge University Press, London, 1989.
6. Singh R.L. (ed.) : India - A Regional Geography National Geographical Society, India Varanasi, 1971.
7. Spate O.H.K. & ATA Learnont-India & Pakistan Methuen, London, 1967.
8. Tirtha R. & Gopal Krishna, Emerging India Reprinted by Rawat Publications, Jaipur 1996.
9. Sharma T.C. and O. Coutinho : Economic and Commercial Geography of India.
10. अग्रवाल पी.सी. भारत का भौतिक का भूगोल, एशिया प्रकाशन क. सयपुर 2003
11. बंसल सुरेशचंद्र : भारत का भौतिक का भूगोल, मिनाक्षी प्रकाशन, मेरठ,
12. वर्मा रामविलास, भारत : एक भौगोलिक विवेचन, भवदीय प्रकाशन खुंगारघाट – अयोध्या, फैजाबाद, पिन -224123.2007



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PAPER – V

PRACTICAL 1- ADVANCED CARTOGRAPHY

Graphs and Diagrams: Triangular graph. Logarithmic and semi logarithmic graphs, scatter graphs; climatograph. Proportional circles, spheres and cubes.

Thematic Maps: Choropleth maps, isolines, Flow maps, isochrones and class intervals. Morphometric Analysis: Profiles, Slope Analysis; Altimetric, and Clinographic curves; Block Diagrams.

SUGGESTED READING:

1. Monk house F.J. & H.R, Wilkinson: Maps and Diagrams, Methuen, London.
2. मॉक हाउस तथा विल्किन्सन (अनु.प्रो.प्रेमचन्द अग्रवाल) : मानचित्र तथा आरेख म.प्र. हिंदी ग्रंथ अकादमी
3. हीरालाल: प्रायोगिक भूगोल.
4. शर्मा, जे. पी. प्रायोगिक भूगोल.



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Hemchand Yadav Vishwavidyalaya, Durg (C.G.)

M.A. /M. Sc. GEOGRAPHY

SEMESTER – II

M. A. /M. Sc. Geography Semester II shall consist the following papers:

S. No.	Paper	Title	M. M.		
			Written	Inte. Asse.	Total
1.	VI	Economic and Natural Resource Management	80	20	100
2.	VII	Oceanography	80	20	100
3.	VIII	Regional Development and Planning	80	20	100
4.	IX	Social Geography	80	20	100
5.	X	Practical-II : Map Projections, Map Interpretation and Surveying	---	---	100

1. The M. A./M. Sc. Semester II examination in Geography shall consist of 500 marks.

There shall be four theory papers each of 100 marks and one practical of 100 marks as follows:

Paper VI	Economic and Natural Resource Management.
Paper VII	Oceanography
Paper VIII	Regional Development and Planning
Paper IX	Social Geography
Paper X	Practical-II : Map Projections, Interpretation and Surveying.

2. The theory papers shall be of three hours duration.

3. Candidates will be required to pass separately in theory and practical examinations.

4. (a) In the practical examination the following shall be the allotment of time and marks.

(i) Practical record	20%
(ii) Lab work (up to three hours)	40%
(iii) Field work (up to three hours)	30%
(iv) Viva on i, ii & iii above	10%

(b) The external and internal examiners shall jointly submit marks.

(c) Candidates shall be examined in survey individually. They will however be allowed to take the help of a labourer each at their own expense.

(d) All the candidates shall present at the time of the practical examination their

Practical record regularly signed by the teachers concerned.

PAPER- VI

ECONOMIC AND NATURAL RESOURCE MANAGEMENT

- UNIT – I** Nature and scope of economic Geography; fundamental concepts in economic geography; classification of economies, sectors of economy (primary, secondary, tertiary). Meaning, nature and classification of resources, Resource appraisal: human wants and social objective, technological status and resources. Appraisal of quality and quantity of human resources, relation between population and resource, natural resources and economic development, resource adequacy and scarcity, limits to growth. Resource use, concept of absolute and relative abundance of resources, optimum, under use, misuse and over use of resources.
- UNIT – II** World pattern of major natural resources: land and soils, biotic resources, water resources mineral and energy resources, oceanic resources.
- UNIT – III** Classification of Industries, Theories of industrial location; case studies of selected industries; Iron and Steel; Aluminium, Chemical, Textile. Means of transport, International trade, trade blocks, globalization and Indian economy.
- UNIT – IV** Conservation and management of resources; evolution of the concept, principles, philosophy and approaches to conservation, resource conservation and management methods. Policy making and resource management; sustainable development of resources.

SUGGESTED READING:

- | | | |
|-------------------------------|---|--|
| Ahemd, Jaleel | - | Natural Resources in Low Income Contries. Bennet, |
| II.II. | - | Elements of Soil Conservation. |
| Ciriacy, Wantrup, S.V. & | - | Natural resources: Quality & Quantity Persons (eds.) |
| Betall, R.C. & R.O. Buchanan | - | Industrial Activity and Economic Geography. Edvard |
| and Rosers | - | Agricultural Resources. |
| Freeman, T.W. | - | Geography and Planning. |
| Fryer, D.M. | - | World Economic Development. |
| Isard, Walter | - | Method of Regional Analysis. |
| Mehta, M.M. | - | Human Resource Development Planning. |
| Owen, O.S. | - | Natural Resource Conservation. |
| Peach, W.N. & James, A. | - | Zimmerman's World Resources Contenting and Conservation. |
| Parkin's, E.A. & J.R. Whitakr | - | Our Natural Resource and their conservation. Renner, |
| G.T. | - | Conservation of National Recourses. |
| Stamp, L.D. | - | Land of Britain Its use and Misuc. Smith, G.H.(ed.) |
| | - | Conservation. of Natural Recourses. Symoos, L. - |
| | - | Agriculture Geography. |
| Thomas W.L.(et.al.reds.) | - | Man's Role in Changing the face of the Earth. Wales, |
| H. & H.O. Lathrop | - | The Conservation of Natural Recourses. |
| Wheeler, T.O. et al | - | Economic Geography, John Wiler New York 1995. |



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PAPER – VII

OCEANOGRAPHY

- UNIT – I Nature and scope of Oceanography; Distribution of land and water; Major features of ocean basins; Marine sediments. Physical and chemical properties of sea water.
- UNIT – II Interlink between atmospheric circulation and circulation pattern in the oceans, surface currents, Thermohaline, waves and tides.
- UNIT – III Marine-biological environment: Bio-geochemical cycle in the ocean. biozones, types of organisms; plankton, nekton and benthos, food and mineral resources of the sea. Major marine environments; coastal : estuary, deltas, barrier island, rocky coasts : Open : reefs, continental shelf, continental slope and deep : Pelagic environment and floor of the ocean basins.
- UNIT – IV Impact of Humans on the marine environment. Law of the sea; exclusive economic zone; marine deposits and formation of coral-reefs.

SUGGESTED READINGS:

1. Davis Richard J.A. : "Oceanography-An Introduction to the Marine Environment". Wm. C. Brown Iowa, 1986.
2. Duxbury, C.A. and Duxbury B. : An Introduction to the world's Oceans-C. Brown. Iowa 2nd ed., 1986.
3. Garrison, T. : "Oceanography - An Introduction to Marine Science" Books/Cole, Pacific Grove, USA, 2001.
4. Gross, M. Grant : Oceanography, a View of the earth, prantice-Hall inc, New Delhi, 1987.
5. King C.A.M. Oceanography for Geographers 1962.
6. Sharma, R. C. "The Oceans" Rajesh N. Delhi, 1985.
7. Ummerkutty, A.N.P. Science of the Eceans and Human life, NBT, New Delhi, 1985.
8. Ornamaty, F.D. : The Ocean.
9. Sharma, R. C. & M. Vital : Oceanography : A Brief Introduction kislaya Pub. New Delhi.
10. Siddartha, K.. : Oceanography : A Brief Introduction, Kislya Pub. New Delhi.
11. मेगी ,बी.एस: जलवायु तथा समुद्र विज्ञान.
12. सिंह. सविन्द्र सिंह – समुद्र विज्ञान, प्रयाग पुरस्क भवन, इलाहाबाद (उ.प्र.) 2011
13. लाल, बी. एस – समुद्र विज्ञान.



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PAPER – VIII

REGIONAL DEVELOPMENT AND PLANNING

- UNIT – I Regional Planning: Definition, Scope, evolution and Objectives. Region and Regionalism, Planning Regions: Concept and Delineation, Type of Regions. Central Place Theory, Concept of core and periphery Friedmann's Model of Spatial Organisation and Economic Growth.
- UNIT – II Regional Development Theories: Development Theories of Myrdal and Hirschman, Economic and Export Base model, Frank's Theory of Under development.
- UNIT – III Approaches and Strategies of Regional Development: Growth Pole Theory Agropolitan Development, Community Development, River Basin Planning, Metropolitan Planning (with reference to India).
- UNIT – IV Regional Planning in India. Regional Imbalances and Inequalities, Indicators of Regional Development; Regional Policies in Five Year Plans, Centre State Relations and Multilevel Planning, Planning for special problem Regions: Hill areas, Tribal areas, Drought prone areas, Command areas and River basins. Regional development and planning in India.

SUGGESTED READING:

1. Daysch, C.H.J. & others: Studies in Regional Planning.
2. Deckinson R.E. : City Region and Regionalism
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 16. Zimmerinan, E.W. : World Resources and Industries.
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 29. ओझा रघुनाथ: प्रादेशिक नियोजन का भूगोल.
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 31. चन्द्राकर, इन्द्रमन : व्यावहारिक भूगोल, वसुन्धरा प्रकाशन, गोरखपुर, 1998.



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PAPER – IX
SOCIAL GEOGRAPHY

- UNIT-I** Definition, meaning and scope of Social geography and its Nature and relationship with other Social sciences. Development of Social Geography, Approaches to the study of Social Geography.
- UNIT- II** Concept of Society – Social Environment, Geographic bases of Social Formation. Social Geography of India - Social Stratification, Caste and Class. Social organization and groups, Social transformation and change in India, Religion and linguistic group of India. Evolution of Socio-Cultural Regions of India.
- UNIT – III** Social well- being– meaning and indicators of Social well- being. Quality of life, Pattern and bases of rural and urban society. Deprivation and discrimination issues relating to women and under privileged groups. Cultural Realms and Cultural Region of the World.
- UNIT – IV** Social development planning – meaning and importance. Public policy and social planning in India: Review of Five year Plans strategies to improve social well-being in tribal, hill, drought and flood prone Areas.

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16. Subba. Rao. Personality of India : Pre and Proto Historic foundation of India and Pakistan, M.S. University Baroda. Vadodai'a, 1958.
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PAPER – X

PRACTICAL II- MAP PROJECTIONS, INTERPRETATION AND SURVEYING

Map Projections: Mathematical/Graphical construction of world projections. Interpretation of Maps: Geological Maps.

Principles and methods of topographical surveying involving the use of Theodolite and Dumpy level. Solution of problems in Surveying.

Topographical Information – International series, South east Asia Series, Indexing, Classification & Interpretation of topographical sheets.

SUGGESTED READINGS:

1. Davis, R. C. & E. S. Forte: Surveying: Theory and Practical.
2. Kanetkar, T.R. & S.V. Kulkarni: Surveying and leveling part I & II A.V.G. Prakashan, Poona.
3. Monkhouse F.J. & H.R. Wilkinson: Maps and Diagrams, Methuen, London.
4. मॉक हाउस तथा विल्किन्सन (अनु.पो.प्रेमचन्द अग्रवाल) : मानचित्र तथा आरेख म.प्र. हिंदी ग्रंथ अकादमी .
5. हीरालाल: प्रायोगिक भूगोल.



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Hemchand Yadav Vishwavidyalaya, Durg (C.G.)

M.A./M. Sc. GEOGRAPHY SEMESTER III

M.A. /M. Sc. Geography Semester III shall consist the following papers:

S. No.	Paper	Title	M. M.		
			Written	Inte. Asse.	Total
1.	XI	Population Geography	80	20	100
2.	XII	Settlement Geography	80	20	100
3.	XIII (A)	Remote Sensing Techniques	80	20	100
	OR	OR			
4.	XIII (B)	Biogeography and Ecosystem	80	20	100
5.	XIV	Research Methodology	80	20	100
	XV	Practical-III : Remote Sensing and Quantitative Techniques	---	---	100

- The M.A. /M. Sc. Semester III examination in Geography shall consist of 500 marks. There shall be four theory papers each of 100 marks and one practical of 100 marks as follows:
Paper XI : Population Geography
Paper XII : Settlement Geography
Paper XIII (A) : Remote Sensing Techniques
OR
Paper XIII (B) : Biogeography and Ecosystem
Paper XIV : Research Methodology
Paper XV : Practical – III: Remote Sensing and Quantitative Techniques
- The theory papers shall be of three hours duration.
- Candidates will be required to pass separately in theory and practical examinations.
- (a) In the practical examination the following shall be the allotment of time and marks.
 - Practical record : 20%
 - Lab work (up to Four hours) : 70%
 - Viva on i.& ii. Above : 10%
- (b) The external and internal examiners shall jointly submit marks.
- (c) All the candidates shall present at the time of the practical examination their practical record regularly signed by the teachers concerned.



Dr. Singh
27/6/21



Dr. Hemchand Yadav
29/06/2021

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Dr. Hemchand Yadav

SEMESTER – III

PAPER - XI

POPULATION GEOGRAPHY

- UNIT – I Definition and scope of Population Geography. Relation of Population Geography with other subjects of social sciences. Historical development of Population Geography in western countries and in India. Sources of population data, Census and its history.
- UNIT – II Distribution of Population: The concept of population density and its types. Factors affecting population distribution. Distribution & Density of population in the world with special reference to Europe, Asia and India. Growth of population: Measure of decennial and annual rates of population growth, prehistoric and modern trends of population growth in the world. Regional aspect of population growth in India. Population theories. Demographic transition.
- UNIT– III Population composition in terms of age and sex, rural, urban residence, educational status and occupational structure. Significance of these elements in population analysis, factors affecting their composition in population, broad world patterns and detailed spatial patterns in India. Fertility and Mortality of population: Significance and factor. Indices and rates. World pattern and pattern in India. Human Development Index and its Components.
- UNIT– IV Migration of population: Causes, characteristics and types. Methods of estimating value of internal migration. Important international migrations of the world, internal migration in India: Population and Resources: Population-Resource regions. Population Regions: Concept and methods, population regions of India, population policies of India.

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2. Boglia, D.J. Principles in Demography, John Wiley, New York 1969.
3. Bose, Ashish et al. : Population in India's Development (1947-2000); Vikas Publishing House, New Delhi, 1974.
4. Census of India, India : A State Profile, 1991.
5. Chandna, R. C. Geography of Population, Concept, Determinants and Patterns. Kalyani Publishers, New York, 2000.
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14. Srinivasan, K. and M. Vlassoff, Population Development Nexus in India :Challenges for the New Millennium Lata Me Graw-Hill, New Delhi, 2001.
15. Srinivasan K. Basic Demographic Techniques and Applications Sage, Publications, New Delhi, 1998.
16. Sunda.ra.m K. V. a.nd Sudesh Nangia., (ed.) Population Geography, Henlage Publications, Delhi, 1986.
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24. शर्मा, सरला : छत्तीसगढ़ बेसिन में ग्रामीण शिशु मर्त्यता प्रतिरूप. पंडा. वी.पी. : जनसंख्या भूगोल.
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26. चन्दना, आर.सी. : जनसंख्या भूगोल. त्रिपाठी.
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Dr. Ashwini Kulkarni

SEMESTER – III
PAPER - XII
SETTLEMENT GEOGRAPHY

- UNIT – I Meaning, Objectives and Scope of Settlement Geography; Evolution, Distribution, Types and Patterns of Rural Settlements; Rural House Types; Rural Service Centers.
- UNIT – II Evolution and growth of urban settlements; The Geographical setting of Urban Centers: Site, Situation and Location.
- UNIT – III Rank- size-relationship; Cities as Central Places, Central Place Theory, Growth Centre Theory.
- UNIT – IV City- Country Relationship: Umland, Rural-Urban Fringe.

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4. Berry Brain .I. L. : Geographic Prospective on Urban Systems.
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6. Dickinson, R.E. : City, Religion and Regionalism.
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15. Carter, Harold : Study of Urban Geography, London, Edward Arnold, 1979.
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SEMESTER – III

PAPER – XIII (A) REMOTE SENSING TECHNIQUES

- UNIT-I Historical development of remote sensing as a technology - Relevance of remote sensing in Geography - Concepts and basics: Energy source, energy and radiation principles, energy interactions in the atmosphere and earth surface features, remote sensing systems: platform sensors and radiation records. Microwave sensing interpretation of SLAR imageries, thermal imageries.
- UNIT- II Remote Sensing Satellite: platforms LANDSAT, SPOT, NOAA, RADARSAT, IRS, INSAT: principles and geometry of scanners and CCD arrays, orbital characteristics and data products - MSS, TM, LISS I & II, SPOT-1A & MLA, SLAR.
- UNIT- III Image Processing: Types of imagery, techniques of visual interpretation, ground verification transfer of interpreted thematic information to base maps-digital processing: rectification and restoration, image enhancement - contrast manipulation, Classification: Supervised and Unsupervised, post-classification analysis and accuracy assessment.
- UNIT-IV Applications: Air photo and image interpretations, arid mapping land use and land cover, land evaluation, urban land use, landform and its processes, weather studies and studies of water resources: integration of Remote Sensing and GIS. Remote sensing and hazard management, remote sensing and environmental management.

SUGGESTED READINGS:

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3. Compbell J.: Introduction to Remote Sensing, Guilford, New York, 1989.
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PAPER – XIII (B)

BIOGEOGRAPHY AND ECOSYSTEM

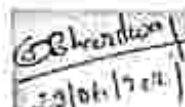
- UNIT- I Definition and scope of Biogeography Environment, Habitat and Plant-animal association, Biome Types.
- UNIT- II Elements of plant geography, distribution of forests and major communities. Plant successions in newly formed land forms. Zoogeography and its Environmental Relationship. Palaeo botanical and Palaeo climatological records of environmental change.
- UNIT- III Ecosystems: concept and components, Ecosystem-form and function: tropic level, ecological pyramids, ecological niche, energy and nutrients in the ecosystem, hydrological cycle, food chains and food webs. Major terrestrial ecosystems of the world: agriculture, forests, grassland and desert. Population growth and environment.
- UNIT- IV Biodiversity and its Conservation. Preservation and conservation of the ecosystem through resource management, Environment legislation. The Stockholm conference, the Earth summit, Environmental laws in India (the Wild Life Act, Water Act, Forest Act, Environment Protection Act and National Environment Tribunal Act).

SUGGESTED READINGS -

1. Agrawal D.P.: Man and Environment in India through Ages, Book & Books, 1992.
2. Bradshaw, M.J.: Earth and Living Planet, ELBS, London, 1979.
3. Cox, C.D. and Moore, P.D.: Biogeography: An Ecological and Evolutionary Approach 5th edn. Blackwell, 1993.



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SEMESTER – III
PAPER - XIV RESEARCH
METHODOLOGY

- UNIT – I** Research Methodology-An Overview; Procedure of scientific Research, Defining Research Problem; Formulating Hypothesis; Research Design.
- UNIT – II** Methods of Data Collection: Observation, Questionnaire, Schedule and Interview; Sampling: Sampling Methods, Size of Sample;
- UNIT – III** Processing and Analysis of Data: Processing- Editing, Coding, Classification and Tabulation, Analysis– Measurement of Central Tendency, Dispersion, and Correlation.
- UNIT – IV** Preparation of Research Reports: Steps, Layout and Types of Reports

1. Gaur, R. : Environment and Ecology of Early Man in Northern India R. B. Publication Corporation 1987.
2. Hoyt, J.B. Man and the Earth, Prentice Hall, U.S.A. 1992.
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5. Khoshoo, T. N. and Sharma, M. (eds) : Indian Geosphere-Biosphere Har-Anand Publication, Delhi 1991
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22. Russwurm, L.H. and Sommerville, E. (eds.) : Man's Natural Environment-A Systems Approach, Duxbury, Massachusetts, 1985.
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Master
2/10/2021
Dr. Anil Kumar

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Dr. Anil Kumar

G. Bhardwaj
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Dr. Anil Kumar

SUGGESTED READING:

1. Selltiz, C.M. Jahoda, M. Deutsch and others. Research Methods in Social Relations, Holt, New York, 1961.
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4. Chorley, R.J. and P. Haggett (ed) Models in Geography, Methuen, London, 1967.
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SEMESTER – III
PAPER - XV
PRACTICAL -III

Remote Sensing, Interpretation of Topographical Sheets and Quantitative Techniques

1. **Principles of Photogrammetry:** - Air Photo- Stereo test, Orientation of stereo model under mirror stereoscope, Preparation of photo/line index and determination of photo scale, Use of parallax bar and determination of heights, Identification of features on aerial photo graph, Tracing of details from stereo pair, Interpretation of physical and cultural details, Preparation of Land use map pre field interpretation, Field visit for ground truthing.
2. **Remote Sensing:**- Study of satellite Image – Annotation Identification of features on FCC imageries, Tracing of details from satellite imageries, Basic Principles of Image interpretation, Interpretation of Physical and Cultural details and preparation of land use and land cover map using IRS Images. Pre field visit.

Statistical Techniques:

Product moment and Rank Correlation Coefficients, Linear Regression. Hypothesis Testing: Chi-Square test, t-test & F test, Sampling Techniques, Point, Line and Area Sampling.

SUGGESTED READINGS:

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Hemchand Yadav Vishwavidyalaya, Durg (C.G.)

M.A./M. Sc. GEOGRAPHY SEMESTER IV

M.A./M.Sc. Geography Semester IV shall consist the following papers:

S. No.	Paper	Title	M. M.		
			Written	Int. Ass.	Total
1.	XVI	Urban Geography	80	20	100
2.	XVII	Agricultural Geography			
3.	XVIII (A)	Geographical Information System	80	20	100
4.	OR	OR			
5.	XVIII (B)	Environmental Geography	80	20	100
6.	XIX	Field Work (Physical and Socio- Economic)			
	XX	Practical-IV :Geographical Information System and Quantitative Techniques	—	—	100

1. The M.A./M.Sc. Semester IV examination in Geography shall consist of 500 marks. There shall be three theory papers and one Field Work report each of 100 marks and one practical of 100 marks as follows.

S. No.	Paper	Title
1.	XVI	Urban Geography
2.	XVII	Agricultural Geography
3.	XVIII (A)	Geographical Information System
	OR	OR
4.	XVIII (B)	Environmental Geography
5.	XIX	Field Work (Physical and Socio- Economic)
6.	XX	Practical-IV: Geographical Information System and Quantitative Techniques

- The theory papers shall be of three hours duration.
- Candidates will be required to pass separately in theory and practical examinations.
- Candidates will be required to submit their Field Report in three copies in hard bound at least one hundred pages for Valuation.
- (a) In the practical examination the following shall be the allotment of time and marks

(i) Practical record	20%
(ii) Lab Work (up to Four Hours)	70%
(iii) Viva on i & ii above	10%
- (b) The external and internal examiners shall jointly submit marks.
- (c) All the candidates shall present at the time of practical examination their practical record regularly signed by the teacher concerned.

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SEMESTER – IV
PAPER-XVI
URBAN GEOGRAPHY

- UNIT – I Definition, Objective and Scope of urban geography, General Nature of City Structure.
- UNIT – II Internal structure: Morphology and Land use. Theories of Urban Structure: The Concentric Zone Theory, the Sector Theory, the Multiple Nuclei Theory. Commercial Structure of Cities; The Central Business District (CBD),
- UNIT – III Centrifugal and Centripetal forces in Geography, Economic Base of Towns: Basic, Non-basic concept. Urban Functions: Functional Classification of Towns: Webb, Harris, and Nelson.
- UNIT – IV Contemporary Urban Issues: Urban renewal, Urban sprawl, Slums, Environmental Pollution, Urban Planning; Landuse Planning, Urban and Metropolitan Planning in India.

SUGGESTED READINGS:

1. Abercrombee, Sir P.: Town and Country planning 1961.
2. Alam, Shah Manzoor : Hyderabad Securdabad (Twin Cities) A. study in urban geography)
3. Alam, S.M. & V.V.Tokshishevesky : Urbanization in developing countries.
4. Berry Brain .J. L. : Geographic Prospectives on Urban .Systems.
5. Bresse, C. & D.F. Whiteman : An approach to Urban Planning
6. Dickinson, R.E. : City, Religion and Regionalism.
7. Gallion and Fisher : The Urban Pattern.
8. Griffith, . J.P : A study of Urban constructions in India.
9. Gibbs : Urban Research Methods.
10. Hall P. : Urban and Regional Planning, Rout ledge, London, 1992.
11. Kundu, A. : Urban Development and Urban Research in India, Khanna Publication, 1992.
12. Mayor, H.M. & Kohn : Readings in Urban Geography.
13. Morgan, F.W. : Ports and Harbours.
14. Mumford L. : Culture of cities.
15. Nangia Sudesh : Delhi Metropolitan Region ; A Study in Settlement Geography, Rajesh Publication, 1976.
16. Robson, W.A. : Great cities of world.
17. Robson, B.T.: Urban Growth : An approach, Methuen, London.
18. Smailes, A E : The Geography of Town, Hutchinson, London, 1953.
19. Tewari, Vinod K, Jay A : Indian Cities : Ecological
20. Weinstein, VLS Prakash Rao (editors) : Perspectives, Concept, 1986.
21. Carter, Harold: Study of Urban Geograpy, London, Edward Arnold, 1979.
22. Singh R.I., & K.N. Singh: Readings in Rural Settlement Geography, NCSI Varanasi, 1975.
23. सिंह,उज्ज्वल : नगरीय भूगोल.
24. कच्छु,एम.पी. : नगरीय भूगोल.
25. बंसल सुरेश चन्द : नगरीय भूगोल.
26. सिंह, ओमप्रकाश : नगरीय भूगोल.
27. तिजारी आर.सी. : आधवास भूगोल प्रयाग पुस्तक भवन, इलाहाबाद 1997.
28. कदम एच मादव आधवास भूगोल.
29. चादा रामसुरेश : आधवास भूगोल.



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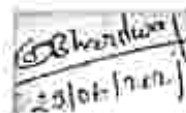
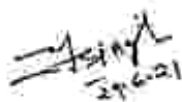
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SEMESTER – IV
PAPER – XVII
AGRICULTURAL GEOGRAPHY

- UNIT – I** Nature, scope, significance and development of agricultural geography. Approaches to the study of agricultural geography: Commodity, systematic and regional systems. Origin and dispersal of agriculture. Sources of agricultural data.
- UNIT – II** Determinants of agricultural land use - Physical, economic, social, and technological Land holding and land tenure systems, Land reforms, land use Agriculture policy and planning. Selected agricultural concepts and their measurements; cropping pattern, crop concentration, intensity of cropping, degree of commercialization, diversification and specialization, efficiency and productivity, crop combination regions and agricultural development.
- UNIT – III** Theories of agricultural location based on several multi-dimensioned factors:-Von Thunen's theory of agricultural location and its recent modifications; Whittlesey's classification of agricultural regions; land use and land capability.
- UNIT – IV** Contemporary Issues: Food, nutrition and hunger, food security, drought and food-security, food aid Programmes; role of irrigation, fertilizers, insecticides and pesticides, technological know-how. Employment in the agricultural sector: landless labourers, woman, children: occupational and agricultural activities.

SUGGESTED READINGS:

1. Bayliss-Smith, IP.: The Ecology of Agricultural Systems. Cambridge University London, 1987.
2. Berry, B.J.L. et. al.: The Geography of economic Systems. Prentice Hall, New York, 1976.
3. Brown, L.R.: The Changing World Food Prospects - The Nineties and Beyond, World Watch Institute, Washington D.C., 1990.
4. Dyson, T.: Population and Food - Global Trends and Future Prospects. Routledge. London, 1996.
5. Gregor, H.P.: Geography of Agriculture. Prentice Hall, New York, 1970.
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8. Mannion, A.M.: Agriculture and Environment Change, John Wiley, London, 1995.
9. Morgan W.B. and Norton, R.J.C.: Agricultural Geography. Methuen, London, 1971.
10. Morgan, W.B.: Agriculture in the Third World - A Spatial Analysis. Westview Boulder, 1978.
11. Sauer, C.O.: Agricultural Origins and Dispersals, M.I.T. Press, Mass, U.S.A., 1988.
12. Singh, J. and Dhillon, S.S.: Agricultural Geography. Tata McGraw Hill' Pub.; Delhi, 1988.
13. Tarrant, J.R.: Agricultural Geography. Wiley, New York, 1974.
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SEMESTER – IV

PAPER – XVIII (A)

GEOGRAPHICAL INFORMATION SYSTEM

- UNIT – I Spatial Science : Geography as a spatial science, maps and spatial information dynamics of spatial information, elements of information technology, Geographic objects and their relations definition and development of GIS, computer environment for GIS.
- UNIT – II Spatial Data: Elements of spatial data: data sources: Primary and secondary census and sample data, quality and error variations Raster and vector data structures, data conversion comparison of raster and vector data bases, methods of spatial interpolation – GIS data formats for the computer environment.
- UNIT – III GIS Technology: Coordinate system-basic principles of cartography and computer assisted cartography for GIS – remote sensing data as a data source for GIS integration of GIS and remote Sensing-GPS and GIS: technology, data generation and limitations – visualization in GIS-Digital Elevation Models (DEM and TINs).
- UNIT – IV GIS Application: GIS as a Decision Support System –expert system for GIS-basic flow chart for GIS application – GIS standard legal system and national GIS policy application of GIS in Land Information System, Urban Management, Environmental Management and Emergency Response System.

SUGGESTED READINGS:

1. American Society of Photogrammetry : Manual of Remote Sensing. ASP, Falls Church V.A., 1983.
2. Barrett E.C. and L.F. Curtis : Fundamentals of Remote Sensing and Air Photo Interpretation on, Memillan, New York, 1992.
3. Campbell J. : Introduction to Remote Sensing, Guilford, New York, 1989.
4. Curran, Paul J. : Principles of Remote Sensing. Longman, London, 1985.
5. Hord R.M.: Digital Image Processing of Remotely Sensed Date, Academic, New York, 1983.
6. Luder D., Aerial Photography Interpretation : Principles and Application, CeGraw Hill, New York, 1959.
7. Pratt W.K. Digital Image Processing, Wiley, New York, 1978.
8. Rao D. P. (eds.) : Remote Sensing for Earth Resources, Association of Exploration Geophysicist, Hederabad, 1998.
9. Thomas M. Lillesand and Ralph W. Kefer, Remote Sensing and Image Interpretation, Wiley & sons, New York, 1994.
10. Aronoff S. Geographic Information Systems: A. Management Perspective, Publication Offiawa, 1989.
11. Burrough P.A. Principles of Geographic Information Systems for Land Reson Assessment Oxford University Press, New York, 1986.
12. Fraser Taylor D.R. Geographic information Systems, Pergamor Press, Oxford 1990.
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14. Mark S. Monmonier. Computer-assisted Cartography, Prentice-Hall, Englewood Cliff, Jersey, 1982.
15. Peuquet D. .1. and D.F. -Marble, Introductory Reading in Geographic. Information System Taylor & Francis, Washington, 1990.
16. सौम्याल, देवी दत्त: सुदूर संवेदन एवं भौगोलिक सूचना प्रणाली.



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SEMESTER – IV
PAPER – XVIII (B)
ENVIRONMENTAL GEOGRAPHY

- UNIT – I** Environment: Meaning, definition, concepts and theories related to environment. Environment and its components: Classification, Characteristics and their interdependent relationship, Development of the environmental studies and their approaches: Development of environmentalism in Geography.
- UNIT – II** Environment and development. Ecological concepts; Geography as human ecology: Ecosystem: meaning definition, Concept and components. Main terrestrial ecosystems of the world-forests and agriculture.
- UNIT – III** Environmental hazards- natural and human made, environmental pollution: meaning definition, nature and types-air, water, noise and others. Ecological impacts of pollution. Resource use and ecological imbalance with special reference to soil, forests and water resources.
- UNIT – IV** Environmental Management: meaning, importance and approaches, need for environmental policy and laws. Preservation and conservation of environment through resource management (Green revolution, Chipko movement, National Parks). Environmental Actions: concept, need and importance Stockholm Conference, Earth Summit, E.L.A. definition and methods and need for EM Environmental education and People's participation.

Suggested Readings:

1. Agrawal, Anil and Sunita Narain. Dying Wisdom: The Fourth citizen Report. Centre for Science and Environment, New Delhi, 1998.
2. Burton I.; R.W. Kates & G.F. Whitley. The Environment as Hazards. O. U.P. New York, 1978, Carledge, Bryen. Population and the Environment, O.U.P., New York, 1995.
3. Chandna, R.C. Environmental Awareness Kalyani Punlishers, New Delhi, 1998.
4. Dawson, J. and J.C. Doornkamp, eds.: Evaluating the Human Environment. Edward Arnold, London, 1975
5. Detwyler, J.R.: Man,s impact on Environment. Pelican, 1970.
6. Edington, J.M. & M.A. Edington: Ecology and Environmental Planning. Chapman & Hall, London, 1977.
7. Goudie, Andrew. The Human Impact on the Natural Environment, Blackwell Oxford, U.K. 1994
8. Jain, R. K., L.V. Urban and G.S. Stacy; Environmental Impact Analysis-A New Dimension in Decision-Making. Van Norstrand Reinhold Co. New York, 1977.
9. Khoshoo, T.N. Environmental Concepts and Strategies. Ashish Publishing House, New Delhi.
10. Mohan, M. Ecology and Development. Rawat Publications; Jaipur, 2000.
11. Munn, R.E. Environmental Impact Assessment: Principles and Procdures. John Wiley & Sons, New York, 1979.
12. Narain, Sunita. The Citizen Fifth Report. Centre for Science and Environment, New Delhi 2003.



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1. Mukherji, A and V. K. Agnihotri : Environment and Development. Concept Pu. Co. New Delhi, 1993.
2. Rudig Wolfgang, Environmental Policy Edward Elger Publishing Ltd. UK. 1998.
3. Saxena, H.M. Environmental Geography. Rawat Publications, Jaipur, 1999
4. Saxena, H.M. Environmental Management. Rawat Publications, Jaipur, 2000
5. Sharma, B.L. & Puar P: Global Environmental Challenges. Rohini Books, Publishers & Distributors, Jaipur, 2004.
6. Singh, K.N. and D.N. Singh : Population Growth, Environment and Development Issues, Impacts and Responads. Environment & Development Study Centre, Varanasi, 1991.
7. Singh, R. B. and S. Mishra : Environmental Law in India : Issues and responses, Concept Pub. Co. New Delhi, 1966.
8. Singh, S. Environmental Geography. Prayag Pustak Sadan, Allahabad, 2000.
9. Smith, R.L. : Man and his Environment: An Ecosystem Aproach. Harper & Row. London, 1992.
10. U.N.E.P.: Global Environmental Outlook. U.N. Pub. New York.
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13. रघुवंशी अरुण और चन्द्रलेखा रघुवंशी : पर्यावरण तथा प्रदूषण, मध्यप्रदेश हिन्दी ग्रथ अकादमी, भोपाल, 1989
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16. तिवासी, विजय कुमार : पर्यावरण और परिसिधितिकी, हिमालय पब्लिशिंग हाउस, दिल्ली 1998: ।
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SEMESTER - IV

PAPER - XIX

FIELD WORK (PHYSICAL AND SOCIO-ECONOMIC)

UNIT - I Trace the prominent features of area to be surveyed. Identify salient landform features of selected area on a topographical sheet. Identify the landforms on the surface, while in the field. Also note the agents of erosion, transportation and deposition associated with the landforms.

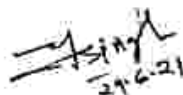
UNIT - II Identity and classify the Bio-diversity in the area (Flora & fauna). Observe the relationship of various landforms, flora and fauna with land-use, settlement structure and life style of people.

Socio - Economic

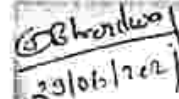
UNIT - III Procure a cadastral map of the village/town for field mapping of the features of land-use and land quality. Procure/prepare the settlement -site map through rapid survey to map the residential, commercial, recreational (parks, playground), educational, religious and other prominent features. Conduct a socio-economic survey of the households with a structured questionnaire. Supplement the information by personal observations and perceptions.

UNIT - IV Based on observations of the land-use and results of the socio-economic enquiry of the households, prepare a critical field-survey report. Photographs and sketches, in addition to maps and diagrams, may supplement the report.


29/06/2021
Dr. Sushama


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Nandini


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29.6.2021
Dr. Jaishankar

SEMESTER - IV

PAPER - XX PRACTICAL-IV

GEOGRAPHICAL INFORMATION SYSTEM AND QUANTITATIVE TECHNIQUES

Geographical Information System

An overview of GIS software, Elements of GIS: Data capture-verification and preprocessing-data storage and maintenance of databases-Database Management Systems: Spatial data creation, Editing the layers and table creation, Creation of non Spatial data, data manipulation, analysis (integrated analysis of spatial and attribute data, overlay analysis, neighborhood operations and connectivity functions) and spatial modeling-output format and generation, Buffer analysis, Network Analysis, Creation of DEM & TIN Generation of thematic map.
GPS – Demonstration and handling of Hand field GPS receivers, Checking and updating of existing map, Use of GPS to Check/update the existing topographical map, Ground truthing by GPS.

Quantitative Techniques:

Running mean, Mean centre, Nearest Neighbor Analysis; Lorenz Curve, Normal distribution curve, Probability.

SUGESSTED READINGS:

1. Singh, R.L. & P.K. Dutt : Elements of Practical Geography Students trends.
2. Monkhouse, F.J. & H.R. Wilkinson; Maps and Diagrams Mathuen, London.
3. Mahmood, Aslam 1971 : Statistical Methods in Geographical studies Rajesh Pub., New Delhi.
4. Gregory, S. Statistical Methods and The Geographer.
5. Hammond & Mccullah 1977 : Quantitative Techniques in Geography, Clarendon Press, Oxford.
6. Fitz, Gomid, B.P. : Science in Geography, Developments in Geographical Method, Oxford University Press.
7. Yeaters, M. : An Introduction to Quantitative Analysis in Human Geography, McGraw Hill, New York.
8. गोक हाउस तथा थिडिकन्सन 1978 : मानचित्र तथा आरेख, मध्य केदारनाथ , रामनाथ, मेरठ.
9. वेगी, जे.एन. : भूगोल में आधुनिक सांख्यिकी, केदारनाथ , रामनाथ, मेरठ.
10. हीरालाल : प्रायोगिक भूगोल, कलाकम्पर, जगनपुर.
11. अर.सी. सिधरी एवं सुधाकर शिपाडी : अमिन्त्र प्रयोगालक भूगोल, प्रयाग पुस्तक भवन, इलाहाबाद



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