दुर्ग विश्वविद्यालय, दुर्ग (छ.ग.)



पाठ्यकम

परीक्षा - 2017-18

बी.एससी. भाग-1 B.Sc. Part-1

(Approved by Board of Studies)
Effective from July 2017

CHEMISTRY

The new curriculam will comprise of Three papers of 33.33 and 34 marks each and practical work of 50 marks. The curriculam 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 & the practical work of 180 hrs. duration.

PAPER-I INORGANIC CHEMISTRY

M.M. 33

(paper code - 0795)

UNIT-1 A. ATOMIC STRUCTURE

Idea of de-Broglie matter-waves, Heisenberg Uncertainty principle, Schrodinger wave equation, significance of, radial & angular wave functions and probability distribution curves, Atomic orbital and shapes of s, p, d orbital's, Aube and Pauli exclusion principles, Hand's Multiplicity rule, electronic configuration of the elements, effective nuclear charges.

B. PERIODIC PROPERITIES

Ionization energy, electron gain enthalpy and electro negativity, trend in periodic table and applications in predicting and explaining the chemical behavior.

UNIT-2 CHEMICAL BONDING

Covalent Bond: Valence bond theory and its limitations, directional charectaristics of covalent bond, various types of hybridization & shapes of simple inogranic molecules

and ions, Valence shell electron pair repulsion (VSEPR)2 theory to

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 $IC\Gamma_2$ and H_2O . M.O. Theory, homonuclear & hetronuclear bond strength & bond energy,

percentage ionic character from dipole moment & electronegativity difference.

24.7.2014 Marker 241717 Profest 124717 12

UNIT-3 CHEMICAL BONDING

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 & polarisabilitry of ions, Fajans rule, Metallic bond-free electron, Valence bond & band theories.

UNIT-4 A. s-BLOCK ELEMENTS

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. CHEMISTRY OF NOBLE GASES

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

UNIT-5 A. p-BLOCK ELEMENTS

Halides hydrides, oxides and oxyacids of Boron, Aluminum, Nitrogen and Phosphorus, boranes, borazines, fullerenes and silicates, interhalogens and pseudohalogens.

B. INORGANIC CHEMICAL ANALYSIS

Chemical principles involved in the detection of acids and basic radicals including interfering radicals.

REFERENCE BOOKS:

- Basic Inorganic Chamistry, F.A Cotton, G. Wilkinson and P.L. Gaus, Wley 1.
- Conciso Inorganic Chemistry, J.D. Lee, ELBS 2.
- Concepts of models of Inorganic Chemistry, B. Douglas, D. Mc Daniel and J 3. Alexander. John Wiley.
- Inorganic Chemistry, D.E. Shriver, P.W. Atkins and C.H.L. angford, Oxford. 4.
- Inorganic Chemistry, W.W. Porterfield, Addison-Wesley. 5.
- Inorganic Chemistry, A.G. Sharp, ELBS. 6.
- Inorganic Chemisty, G.L. Micssels and D.A. Tarr, Prentice Hall. 7.
- Advanced Inorganic Chemistry, Satya Prakash 8.
- Advanced Inorganic Chemistry, Agarwal & Agarwal 9.
- Advanced Inorganic Chemistry, Puri & Sharma, S. Naginchand 10.
- Inorganic Chemistry, Madan, S. Chand 11.
- Aadhunik Akarbnic Rasayan, R.K. Shrivastav & P.S. Jain, Goel Publication. 12.
- Uchchattar Akarbnic Rasayan, Satya Prakash & G.D. Tuli, Shyamal Prakashan. 13.
- Uchchattar Akarbnic Rasayan, Puri & Sharma 14.
- Akarbnic Rasayan, Bhagchandni, Sahitaya Publication. 15.
- Rasayan Vigyan, Bhatnagar, Arun Pablication. 16.

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PAPER - II ORGANIC CHEMISTRY

M.M. 33

(paper code - 0796)

UNIT-I ELECTONIC STRUCTURE & BONDING

A. Resonance, Hyper conjugation, Inductive and other field effects, Aromaticity, hydrogen bonding.

B. MECHANISM OF ORGANIC REACTIONS

Homolytic & heterolytic bond breaking, types of reagents-electrhpiles & nucleophiles. Structure and reactivity of reaction intermediates-Carbocation, carbanions free radicals, carbenes and niterenes.

UNIT-2 STEREOCHEMISTRY OF ORGANIC COMPOUNDS

A. Optical Isomerism - enantiomers, diastereomers, threo and erythro meso compound, resolution of enantiomers, inversion, retention and recemization.

Relative and absolute configuration, Sequence rules, D and L and R & S systems of nomenclature.

B. Geometrical isomerism - Syn and anti forms, E & Z system of nomenclature, properties of cis-trans isomers.

UNIT-3 ALIPHATIC AND AROMATIC RING COMPOUNDS

- A. Cycloalkanes- Nomenclature, methods of formation, chemical reactions, Baeyer's strain theory and its limitations. Ring strain in small rings (cyclopropane and cyclobutane), theory of strainless rigns. The case of cyclopropane ring: banana bonds.
 - Mono-nuclear and polynuclear aromatic ring. Structure of benzene & naphthalene.

Molecular formula and Kekule structure. Aromatic electrophilic

General pattern of the mechanism, role of \u03c3 and complexes. Electrophilic substitution in naphthalene.

UNIT-4 ALKENES, DIENES AND ALKYNES

Mechanism of dehydration of alcohols.

B. Chemical reactions of alkenes- Mechanisms involved in electrophilic and free radical additions, hydroboration-oxidation, oxymercurationreduction, epoxidation.

Substitution at the allylic and vinylic positions of alkenes. Structure of allenes and butadiene, chemical reaction- 1,2 and 1,4 addition, Diel-

Alder reaction.

Chemical reactions of alkynes and acidity of alkynes. Electrophilic and nucleophilic addition reactions, hydroboration and oxidation with ozone and KMnO₄.

UNIT-5 ARENES AND AROMATICITY

A. Alkyl halides and Aryl Halides

Mechanism and stereochemistry of nucleophilic substitution reactions and alkyl halides and aryl halides with energy profile diagrams. SN1, SN2, SNi mechanisms.

B. Mechanisms and stereochemistry of elimination reaction and alkyl halides, Elimination Vs Substitution.

REFERENCE BOOK:

- 1. Organic Chemistry, Morrison and Boyd, Prentic-Hall
- Organic Chemistry, L.G. Wade Jr, Prentice-Hall
- 3. Fundamentals of Organic Chemistry, Solomons, John Wiley
- Organic Chemistry, Vol. I, II, III, S.M. Mukherjee, S.P. singh and R.P. Kapoor, wiley-eastern (New-Age).
- 5. Organic Chemistry, F.A. Carey, MC Graw Hill
- Introduction to Organic Chemistry, Struiweisser, Heathock and Kosover, Macmillan.
- 7. Organic Chemistry, P.L.Soni.
- 8. Organic Chemistry, Bahi & Bahl
- 9. Organic Chemistry, Joginder Singh.
- 10. Carbanic Rasayan, Bashi & Bahi
- 11. Carbanic Rasayan, R.N. Singh, S.M.I. Gupta, M.M. Bakodia & S.K. Wadhwa.
- Carbanic Rasayan, Joginder Singh.
- 13. Carbanic Rasayan, P.L. Soni.
- 14. Corbanic Rasayan, Bhagchandani, Sahitya Bhawan Publication.
- 15. Rasayan Vigyan, Bhatnagar, Arun Prakashan.

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M.M.34

(paper code - 0797)

UNIT-1 MATHEMATICAL CONCEPTS FOR CHEMIST AND COMPUTER

- A. Logarithmic relations, curve sketching linear graphs, Properties of straight line, sloped and intercept, Differentiation of functions, Partial differentiation, Integration of some useful and relavant functions, Maxima and minima, Permutation and combination, Probability.
- B. General introduction to computers, components of computer, hardware and software, input and output devices; binary numbers, Introduction to computer languages, Programming, Operation systems.

UNIT-2 A. MOLECULAR VELOCITIES:

Root mean square velocity average and most probable velocities, Maxwell's law of distribution of molecular velocites of gases, (Graphical interpretation), effect of temperature on distribution of molecular velocities, collision frequency, mean free path, Joule- Thompson effect, Liquification of gases.

B. Deviation from ideal behavior, Real gases, Vander Waal equation of state, Relationship, Vander waal constant and critical constants, Law of corresponding state.

UNIT-3 A. LIQUID STATE

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

 Ideal and non ideal solutions, modes of representing concentration of solutions, activity and activity coefficient.

Dilute solution: Colligative Properties, Lowering of vapor pressure of solvent, Roults law, Osmosis, Vant Hoff Theory of dilute solutions, measurements of Osmotic pressure, relationship between lowering of vapour pressure and osmotic pressure. Elevation of boiling point, Depression in freezing point, abnormal molar masses, Depress of dissociation and association of solutes, Vant Hoff factor.

UNIT-4 A. LIQUID CRYSTALS:

Defference between liquid Crystal, solids and liquids, Classification, Structure of nematic and cholestic phases, Thermography, Seven segment cell, applications of liquid Cristals.

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B. COLLOIDAL STATE:

Classification, Optical, Kinetic, and Electrical Properties of colloid,

Handy Schulze law, flocculation value, Protection, Gold number, Emulsion, micelle. Gel, Syneresis and thixotrophy, Application of colloid.

C. SOLID STATE

Space lattices, unit cells, Elements of Symmetry in crystallize solids, Xrays diffraction, Mills indices, identification of unit cell by Broggs Spectrometer, Powder method, Neutron and electron diffraction (Elementry idea only)

UNIT-5 A. CHEMICAL KINETICS

Rate of reaction, Factors influencing rate of reaction, rate constant, Order and molecularity of reactions, Zero, first and second order reaction, methods of determining order of reaction, Complex reactions : Consecutive, opposing and side reactions, Chain reactions.

Temperature dependence of raction 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, Micellor catalysed reactions, Industrial applications of Catalysis.

REFERENCE BOOKS:

- Physical chemistry, G.M. Barrow, International student edition, MC Graw Hill 1.
- Basic programming with application, V.K. Jain, Tata Mc Graw-Hill 2.
- Computers & Common sense, R. Hunt & Shelly, Prentice-Hall 3.
- University general chemistry, C.N.R. Rao Macmillan. 4.
- Physical Chemistry, R.A. Alberty, Wiley Eastern. 5.
- The elemetrs of Physical Chemistry, P.W. Atkin, Oxford. 6.
- Physical Chemistry throught problems, S.K. Dogra & Dogra, wiley Eastern. 7.
- Physical Chemistry, B.D. Khosla 8.
- Physical Chemistry, Puri & Sharma
- 10. Bhoutic Rasayan, Puri, Sharma & Palhania, Vishal Publishing Company.
- 11. Bhoutic Rasayan, P.L. Soni
- Pb2+, Bhoutic Rasayan, Bahi & Tuli.
- 13. Bhoutic Rasayan, I. R. Gambin
- Bhoutic Rasayan, Bhagchandani, Sahitya Bhawan Publication. 14.
- Rasayan Vigyan, Bhatnagar, Arun Prakashan. 15.

ZOOLOGY

PAPER - I (paper code - 0813)

(CELL BIOLOGY & INVERTEBRATES)

M.M. 50

- UNIT-1 The Cell (Prokaryotic & Eukaryotic)
 Methods in cell biology (Microscopy light & Electron)
 Organization of cell extranuclear and nuclear (Plasma membrane, mitochondria, chromosomes, ER. Golgi bodies, Ribosomes)
- UNIT-2 Cell divisions (Mitosis & Meiosis)
 An elementary idea of cell transformation & Cancer Immunity (elementary idea)
- UNIT-3 General Characteristics & Classification of invertabrates upto orders with examples Protozoa - type study Paramoecium, protozoa & disease Porifera - type sutdy Sycon Coelenterata - type sutdy Obelia.
- UNIT-4 Helminths type sutdy fasciola Annelida - type sutdy Pheretima Arthropoda - type sutdy Palaemon
- UNIT-5 Mollusca type sutdy Asterias (starfish) Protochordata - type sutdy Balanoglossus

PAPER - II (paper code - 0814) M.M. 50 (VERTEBRATES & EMBRYOLOGY)

- UNIT-1 Origin and classification of Chordates.

 Protochordata type sutdy Amphioxus.

 A comparative account of Petromyzon & Myxine
- UNIT-2 Fishes Skin and scales
 Migration in fishes
 Parental care

Amphibia - Parental care Neoteny

Reptilia - Poisonous & nonpoisonous shakes, Poison apparatus, snake venom.

- UNIT-3 Aves Flight adaptation in birds
 Discuss Birds are glorified reptiles
 Mammals- comparative account of prototheria, metatheria & Eutheria and
 Affinities.
- UNIT-4 Gametogenesis, Fertilization & Parhenogenesis.
 Development of frog upto formation of three germ layers
- UNIT-5 Development of Chick upto formation of three germ layer, Extra embryonic membranes. Placenta in mammals. Embryonic induction organisers & differentiation

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PARACTICAL

M.M. 50

The practical work will, in geneal be based on the syllabus prescribed in theory and the candidates will be required to show a knowledge of the following.

- 1. Dissection of earth worm.
- 2. Dissection of Cockroach, Palaemon, Pila.
- Minor Dissection- Appendages of Prawn & hastate plate, Mouth-parts of Insects, Radula of Pila,
- Mounting-Setae, Spermatheca, Septal Nephridia, Nerve ring & ovary of earth worm/
 Parapodia of Nereis Salivary gland of Cockroach, ctenidium of pila, Malpighian

tubules.

- Cytological preparation- Onion root-tip "Squash Preparation" for mitosis/Grasshopper testis squash for meiosis.
- 6. Osteology-Frog & Rabbit
- 7. Museum Specimen invertebrate & Vertebrate, frog embryology.
- 8. Slides-Chick embryology, Cytology, Mammal Histology, Bird feather & invertebrate Slides.

Scl	Scheme of Practical Exam.		Time 3 Hrs, M.M. 50
1.	Major Dissection	8	Marks
2.	Minor Dissection	6	Marks
3.	Mounting	5	Marks
4.	Cytological Preparation	5	Marks
5.	Spots- 8 (Slides-4, Specimens-2, & Bones-2)	16	Marks
6.	Sessional	10	Marks

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BOTANY PAPER - I

(GENERAL DIVERSITY OF MICROBES AND CRYPTOGAMS)

M.M. 50

(paper code - 0811)

UNIT-1 Viruses and Bacteria: General account of viruses and mycoplasma; bacteria structure; nutrition, reproduction and economic importance; general account of cyanobacteria. 12 Hrs.

UNIT-2Algae: General characters, classification and economic importance; important features and life history of Chlorophyceae-Volvox, Oedogonim, Coleochaete; Sargassum; Phaeophyceae- Ectocarpus, Vaucheria; Xanthophyceae-Rhodophyceae-Polysiphonia.

12 Hrs

- UNIT-3 Fungi: General characters, classification and economic importance; important features and life history of Mastigomycotina- Pythium, Phytophthora; Zygomycotina- Mucor, Ascomycotina-Saccharomyces, Eurotium, Chactomium, Peziza; Basidiomycotina- Puccinia, Agaricus; Deuteromycotina-Cercospora, Colletotrichum; general account of Lichens. 12 Hrs.
- Bryophyta: Amphibians of plant kingdom displaying alternation of generations; structure, reproduction and classification of Hepaticopsida (e.g. Riccia Marchantia); Anthocerotopsida (e.g. Anthoceros), Bryopsida (e.g. Funaria) UNIT-4
- UNIT-5 Pteridophyta: The first vascular plants; important characteristics of Psilopsida, Lycopsida, Sphenopsida and Pteropsida; structure, Reproduction in Rhynia, Lycopodium Selaginella, Equisetum, Pteris and Marsilea.

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BOTANY PAPER - II

CELL BIOLOGY AND GENETICS

(paper code - 0812)

UNIT-1 The cell envelope: Plasma membrane; bilayer lipid structure; functions; the cell wall. Ultra structure and function of nucleus; nuclear membrane; nucleolus and other organelles: Golgi bodies, ER, peroxisomes, Vacuoles.

12 Hrs.

UNIT-2 Chromosome organization: Morphology; centromere and telomere; chromosome alterations; deletions, duplications, translocations, inversions; variations in chromosome number ancuploidy, polyploidy; sex chromosomes. Cell division: Mitosis; meiosis

12 Hrs.

UNIT-3 DNA the genetic material: DNA structure; replication; DNA- protein interaction; the nucleosome model; genetic code; satellite and repetitive DNA. Extranuclear genome: Presence and function of mitochondrial and plastid DNA; plasmids.

UNIT-4 Gene expression: Structure of gene; transfer of genetic information; transcription, translation, protein synthesis; tRNA; ribosomes; regulation of gene expression in prokaryotes and eukaryotes; proteins, 1D, 2D and 3D structure.

12 Hrs

UNIT-5 Genetic Variations: Mutations, spontaneous and induced; transposable genetic elements; DNA damage and repair: Genetic inheritance: Mendelism; laws of seggregation nd independent assortment: linkage analysis; allelic and non-allelic interactions.

12 Hrs

BOTANY PRACTICAL

Tin	ne : 3 Hrs	Marks-50
1.	Algae/Fungi	10
2.	Bryophyta/ Pteridophyta	10
3.	Disease Symptoms/Gram's Staining	05
4.	Cytology/Genetics	05
5.	Spots (1-5)	10
6.	Viva Voce	05
7.	Sessionals	05
1970		50 marks

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GEOGRAPHY

- The B.A. Part III Examination in Geography will be of 150 marks. There will be two theory papers and one practical each of 50 marks as follows:
 - Paper I Resource and Environment
 - Paper II Geography of India (with special reference to Chhattisgarh)
 - Paper III Practical Geography
- 2. Each theory paper shall be of three hours' duration.
- 3. Candidates will be required to pass separately in theory and practical examinations.
- 4. Each theory paper is divided into five units.
- 5. (a) In the practical examination the following shall be allotment of time and marks.
 - i) Lab work

- 20 marks

up to three hours

Two hours

ii) Survey

- 10 marks

iii) Field Report

- 10 marks
- iv) Practical Record and viva-voce
- 10 marks
- (b) The external and internal examiners shall jointly submit marks.
- (c) The candidates shall present at the time of the practical examination their practical records regularly signed by the teachers concerned.

PAPER - I

RESOURCES AND ENVIRONMENT

M.M. 50

A. Resources (Paper Code-0248)

- UNIT-I Meaning, nature and components of resources and environment. Resources and environment interface. Classification of resources: renewable and nonrenewable: biotic (forests, wild-life, live-stock, fisheries, agricultural crops) and abiotic (land, water, mineral)
- UNIT-II Distribution and utilization of water mineral and energy resources, their economic and environmental significance and conservation. Types and distribution of forests, fauna and fisheries, their economic, and environmental significance and conservation. Major soil types and their distribution; problems of soil erosion and soil conservation.
- UNIT-III Number, density, growth and distribution of population; population pressure and resource utilization.

B. Environment

- UNIT-IV Classification of environment: Natural and Human. Man environment interrelations with respect to population size, types of economy and technology; exploitation of natural resources and environmental hazards.
- UNIT-V Emerging environmental issues population explosion; food security; deforestation; global warming, conservation of bio-diversity; sustainable development.

PAPER - II GEOGRAPHY OF INDIA

M.M. 50

(With Special reference to Chhattisgarh) (Paper Code-0249)

UNIT - I Physical features: Structure, Relief and Physiographic regions, Drainage, Climate-origin and mechanism of monsoon, and regional and seasonal variation.

UNIT-II Natural resources: Soils - types, their distribution and characteristics. Water resources (major irrigation and hydel power projets); Forests-types, distribution, economic significance and conservation. Mineral and Power resources-Iron-ore, Manganese, Copper, Coal, Petroleum and Natural gas, Non conventional sources of energy.

UNIT-III Cultural Features: Agriculture - Major crops, impact of green revolution and agricultural regions; Industries - Iron and steel, Cotton Textile, Cement, Sugar, Population - growth, density and distribution. Transport, Foreign Trade.

UNIT-IV Chhattisgarh:

Physical Features: Structure, Physiography, Drainage, Climate, Soils, Natural vegetation, Water resources - availability and development. Mineral and Power resources, Power projects.

UNIT-V Chhattisgarh:

Cultural features: Agriculture, Industries, Population - growth, distribution and density, social groups, literacy and sex-ratio, urbanisation. Major tribes-their habitat, economy and society. Transport and Tourism.

SUGGESTED READING:

- Sharma, T.C. and Coutinho, O.: Economic and Commercial Geography of India, Vikas Pub. House, New Delhi, 1988.
- 2. Singh, R.L. (Ed.): India: A regional Geography, Nat. Geog. Soc. of India, Varanasi, 1971.
- Spate, O.H.K. and Learmonth, A.T.A. India and Pakistan: A General and Regional Geography, Methuen & Co. Ltd. London, 1967.
- Tiwari, R.C.: Geography of India, Prayag Pustak Bhawan. Allhabad, 2003.
- 5 प्रमीला कुमार (सम्पादक) : मध्यदेश का प्रादेशिक भूगोल, म.प्र. हिन्दी ग्रंथ अकादमी, भोपाल
- अग्रवाल प्रेमचंद : भारत का भौतिक भूगोल

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PAPER-III PRACTICAL GEOGRAPHY

M.M. 50

- UNIT-I Band graph, Hythergraph and Climograph. Square root, cube-root and vernier scales.
- UNIT-II Map Projection: Conical Projection: one standard parallel, two standard parallels, Bonne's, Ployconic, Polar Zenithal Projections; Gnomonic, Stereographic and Orthographic.
- UNIT-III Study and Interpretation of Indian topographical sheets: classification and numbering system, Interpretation of topographical sheets with respect to cultural and physical features.
- UNIT-IV Surveying Plane Table Survey, Basic Principles of plane table surveying, Plane table survey including intersection and resection.
- UNIT-V Importance of field work in Geography. Field work and field report: physical, social and economic survey of a micro-region.

B.A. Part-3

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M.A. Political Science

Semester-I and semester-II

		MARKS			MARKS	
PAPER	SEMESTER-I	Theory	Internal	SEMESTER-II	Theory	Internal
I	भारतीय राजनीतिक चिंतन (Indian Political Thought)	80	20	पाश्चात्य 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
Ш	तुलनात्मक राजनीति (Comparative Politics)	80	20	विकासशील देशों की तुलानात्मक 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=40	00	

M.A. Political Science

Semester III and Semester IV

	SEMESTER-III	MARKS			MARKS	
PAPER		Theory	Internal	SEMESTER-IV	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
11	लोकप्रशासन भाग–1 (Public Administration Part-I)	80	20	लोकप्रशासन भाग–2 (Public Administration Part-II)	80	20
Ш	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 Ideologiese and Modern Political Thought.)	80	20
	Total=400			Project work VIVA-VOCE		
				Total=500)	

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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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द्वितीय प्रश्नपत्र

भारतीय शासन एवं राजनीति

(Indian Government and Politics)

इकाई—1	भारतीय संविधान की पृष्ठभूमि, संगठन, कार्यप्रणाली वैचारिक आधार, स्त्रोत प्रस्तावना, भारतीय संविधान की विशेषताएँ
	(BACKGROUND OF INDIAN CONSTITUTION, ORGANIZATION IDEOLOGICAL BASIS SOURCE, PREAMBLE, FEATURES OF INDIAN CONSTITUTION)
इकाई-2	मौलिक अधिकार, कर्त्तव्य, नीति निर्देशक सिद्धांत, संविधान संशोधन प्रक्रिया, केन्द्र —राज्य सम्बन्ध, जम्मू कश्मीर एवं धारा 370 तथा 35—A] छठवीं अनुसूची (FUNDAMENTAL RIGHTS AND DUETIES, DIRECTIVE PRINCIPLES, STATE POLLEY, CONSTITUTION AMENDMENT PROCESS, CENTRE- STATE RELATION, JAMMUKASHMIR AND ARTICLE 370 AND 35 A, 6th SCHEDULE OF THE CONSTITUTION.)
इकाई-3	संघीय व्यवस्थापिका — लोक सभा, राज्य सभा, संघीय कार्यपालिक — राष्ट्रपति, प्रधानमंत्री एवं मंत्री परिषद। (UNION LEGISLATURE — LOK SABHA, RAJYA SABHA, UNION EXECUTIVE
इकाई–4	PRESIDENT, PRIME MINISTER AND COUNCIL OF MINISTERS) संघीय न्यायपालिका — सर्वोच्च न्यायलय एवं न्यायिक पुनरावलोकन। भारतीय राजनीति — जातिवाद, क्षेत्रवाद, धर्म एवं सम्प्रदायवाद, राजनीति का अपराधीकरण एवं भ्रष्टाचार (UNION JUDICIARY- SUPREME COURT AND JUDICICAL REVIEW. INDIAN POLITICS-CASTISM, REGIONALISM, RELIGION AND COMMUNALISM, CRIMINALISTION OF POLITICS AND CORRUPTION.

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तृतीय प्रश्न पत्र

तुलनात्मक राजनीति

(Comparative Politics)

ईकाइ-1	तुलनात्मक राजनीति अर्थ, प्रकृति क्षेत्र एवं समस्याएं।
	राजनीतिक व्यवस्था का अर्थ, विशेषताएँ एवं महत्व।
	(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 एव 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	
	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 restablishment of Political Theory)
ईकाइ-4	राजनीतिक संस्कृति, राजनीतिक समाजीकरण, राजनीतिक संचार,
200	(Political culture, Political Socialisation, Political Communication)

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चतुर्थ प्रश्न पत्र

अंतर्राष्ट्रीय संगठन

(International Organization)

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ईकाइ-	अंतर्राष्ट्रीय संगठन की प्रकृति एवं विकास अंतर्राष्ट्रीय संगठन राष्ट्र-राज्य, अंतर्राष्ट्रीय व्यवस्था, राज्यों के बीच सम्म
1	राष्ट्र-राज्य के विकास के विता के विकास
	र राज्य, अंतराष्ट्रीय व्यवस्था
	(Nuture and Evolution And September 1987)
-	
इकाड-2	State, and International S.
	राष्ट्र संघ-निर्माण कंग्राना System)
	(Nuture and Evolution of International Organization Coordination among Nation State, and International System) राष्ट्र संघ-निर्माण, संरचना, कार्य, सफलता एवं असफलता एवं मूल्यांकन (League of Nation-Formation, Function, Achievements, Merits and Demerit an संयुक्त राष्ट्र संघ निर्माण, संरचना, विवादों के सम्प्रकारी जगार, कार्य, संरचना, विवादों के सम्प्रकारी स्वाप्त कार्य कार
-	San of Nation-Formers
र्दकार ०	evaluation.) पाnction, Achievement प्रमुख्याकन
	evaluation.) evaluation.) संयुक्त राष्ट्र संघ निर्माण, संरचना, विवादों के समाधान के शान्तिपूर्ण एवं भूमिका। (United Nation-Formation Structure of the control of the co
1	बाह्यकारी उपाय आर्थिक का माधान के कि
	भमिका। अभिका पर्व सामाजिक विकास के शान्तिपूर्ण एवं
- 1	विभाग
	Control Nation-Formation s
काइ-4	(United Nation-Formation Structure, Peace and Coercive Measures to Settle the Disputes क्षेत्रीय संगठन—सार्क, आसियान, युरोपियन यूनियन, ब्रिक्स RegionalOrganization-SAARC, ASEAN, EUROPE Association
	अभिकृति सार्क आक्रिया and Economic Devel
	RegionalOrganization (अरापियन यसिम् केर्पराविमान क्रिकार केर्पराविमान क्रिकार
	SAARC, ASEAN EURO
	STATE OF THE PROPERTY OF THE P
	RegionalOrganization-SAARC, ASEAN, EUROPEAN UNION, BRICS)

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