

**SCHEME OF EXAMINATION**

**&**

**DETAILED SYLLABUS**

**For**

**B.A (GEOGRAPHY)**

**FACULTY OF ARTS**

**B.A (GEOGRAPHY)(3 yrs Programme)**

<b>First Year</b>				
<b>Code No.</b>	<b>Subject</b>	<b>Internal Marks</b>	<b>External Marks</b>	<b>Total</b>
BAGEO101	Physical Geography	30	70	100
BAGEO102	Human Geography	30	70	100
BAGEO103	Geography of Tourism	30	70	100
BAGEO104	Fundamentals of IT	30	70	100
BAGEO105	English-I	30	70	100
BAGEO106	Hindi-I	30	70	100
BAGEO104-P	Fundamentals of IT Lab	20	30	50
	<b>Total</b>	<b>200</b>	<b>450</b>	<b>650</b>

<b>Second Year</b>				
<b>Code No.</b>	<b>Subject</b>	<b>Internal Marks</b>	<b>External Marks</b>	<b>Total</b>
BAGEO201	Geography of India	30	70	100
BAGEO202	Geographical Thought	30	70	100
BAGEO203	Environmental Issues and Management	30	70	100
BAGEO204	Environmental Science	30	70	100
BAGEO205	English –II	30	70	100
BAGEO206	Hindi-II	30	70	100
	<b>Total</b>	<b>180</b>	<b>420</b>	<b>600</b>

<b>Third Year</b>				
<b>Code No.</b>	<b>Subject</b>	<b>Internal Marks</b>	<b>External Marks</b>	<b>Total</b>
BAGEO301	Introduction to Cartography	30	70	100
BAGEO302	Geography of Soil	30	70	100
BAGEO303	World Regional Geography With Special Reference to Asia	30	70	100
BAGEO304	Geography of Resources	30	70	100
BAGEO305	Economic Geography	30	70	100
BAGEO306	English-III	30	70	100
BAGEO307	Hindi-III	30	70	100
	<b>Total</b>	<b>210</b>	<b>490</b>	<b>700</b>

**Year-1**

## **Physical Geography**

### **Part-I**

Lithosphere Nature and Scope of Physical Geography : Geological Time Scale, Origin of the Earth, Interior of the Earth Origin of Continents and Oceans, Isostasy, Earthquakes and Volcanoes, Geosynclines, Mountain Building with special reference to folded mountains, Concept of Plate Tectonics.

### **Part-II**

Rocks-their origin, classification and characteristics, Earth movements Folding, Faulting and Wrapping, Weathering and Erosion, Cycle of Erosion by Davis and Penk, Drainage Pattern, Evolution of Land forms by River, Wind, Glacier and Underground water.

### **Part-III**

Atmosphere ; Composition and Structure of atmosphere : Insolation, Horizontal and Vertical distribution of temperature, Atmospheric pressure and winds, Airmasses and Fronts, cyclones and anti-cyclones, Humidity, precipitation and rainfall types, Major climate types- Equatorial, Monsoon, Mediterranean, West European and Hot Desert.

### **Part-IV**

Hydrosphere : Ocean Bottoms, composition of marine water-temperature and salinity, Circulation of Ocean water-Waves, Currents and Tides, Ocean deposits, Corals and atolls, oceans as storehouse of resources for the future.

### **Part-V**

Biosphere Components of Biosphere, Plants and animals evolution, dispersal and distribution : Biotic succession, Biome types and Zoo-geographical regions of the world , Biosphere as a global Eco-System.

### **Books Recommended :**

1. Strahler, A N and Strahler, A.H. : Modern Physical Geography.
2. Barry, R.G. and Chorley, R.J. Atmosphere, Weather and Climate.
3. Trewartha, G.T. Elements of Physical Geography
4. Pears, N.: Basis Biography.

## Human Geography

### Unit-I

Concept and Nature ; Meaning, Scope and Development of Human Geography, Man and Environment relationship-Determinism, Possibilism, Neodeterminism, Probabilism, Basic principles-Principle of Activity or Change, Principle of Terrestrial Unity or whole.

### Unit-II

Habitation (Population and Settlement) Distribution of population and world pattern, global migration - causes and consequences, concept of over population and under population. Human Settlements - Origin, types (Rural-Urban) characteristics, size and distribution. House types and their distribution with special reference to India.

### Unit-III

Economy Evolution of Human Economy ; Sequence of human occupation, Primitive Economics-Food gathering, Hunting, Pastoral herding, Fishing, Lumbering and Primitive agriculture. Later major innovations and their impact.

### Unit-IV

Society and Culture Evolution of man (Australopithecus, Homo Erectus, Homosapiens. Man's spread over the earth during the Pleistocene) cultural Diffusion, Cultural realms. World Human Races-Classification, Characteristics and Distribution.

### Unit-V

Population Tribes : Some typical modes of life of world Tribes-Eskimos, Kirghiz, Bushman, Masai, Semang and Pygmies. Habitat, Economy and Society of Indian Tribes-Bhotias, Gaddis, Tharus, Habitat, Economy and Society of Indian Tribes-Bhotias, Gaddis, Tharus, Bhil, Gond, Santhal, Nagas (with reference to their present-day transformation)

### Books Recommended

1. Spencer, J.E. and Thomas, W.L. Introducing Cultural Geography.
2. Thomas, W.L. (ed.) Man's Role in Changing the Face of the Earth.
3. Peripillou, Human Geography
4. Smith, D.M. Human Geography-A Welfare Approach
5. Forde, C.D., Habitat, Economy and Society
6. Dicken, S.N. and Pitts. F.R., Introduction to Human Geography.
7. Kaushik, S.D., Manav Bhoogol (Hindi)

## **Geography of Tourism**

### **Unit-I: Fundamentals of Tourism**

- a) Concepts, Nature and Scope, factors responsible for growth of tourism
- b) Historical developments of tourism
- c) Types and forms of tourism

### **Unit-II: Historical and Cultural Heritage Tourism**

- a) Historical Heritage: Art, Architecture, Monuments
- b) Cultural Heritage: Fair, Festival, Dance, Music
- c) Conservation of Historical and Cultural Heritage: Museum, Archives

### **Unit-III: Constituents of Tourism**

- a) Important modes of travel: Road, Rail, Air and Waterways
- b) Guides: Their Duties and Responsibilities
- c) Travel Agents and Tour Operations: Providing information and making arrangements

### **Unit-IV: Impact of Tourism and its Management**

- a) Impact on economy, society and culture
- b) Impact on environment and ecology
- c) Tourism management

### **Books Recommended:**

1. A.K. Bhati Tourism Development : Peripherals and Practices, Sterlin Publication New Delhi.
2. Arthur Jon Burkart S. Medlik Tourism : Past, Present and Future, Willian Henemann, London, 1974
3. Jafar Jafri (Chief Editor) Encyclopedia of Tourism, Pub. Routledge, London,2000.
4. L.K. Singh Ecology, Environment and Tourism, Isha Books, Delhi, 2008.
5. Mcintosh, R.W Tourism : Principles and Practices, Philosophies, Pub. John Weley and Sons : 5th Ed. 1986



## Fundamentals of IT

Objectives: **This is a basic paper for Commerce students to familiarize with computer and its applications in the relevant fields and exposes them to other related papers of IT.**

### UNIT – I

#### **Introduction to Computers:**

The evolution of computers - Computer Generation from First Generation to Fifth Generation, Classifications of Computers - Micro, Mini, Mainframe and Super Computers, Distributed Computer System, Parallel Computers.

Computer Hardware – Major Components of a Digital Computer, Block Diagram of Computer, Input-Output devices, Description of Computer Input Units, Output Units, CPU

Computer Memory - Memory Cell, Memory Organization, Read Only Memory, Serial Access Memory, Physical Devices Used to construct Memories, Magnetic Hard disk, floppy Disk Drives, Compact Disk Read Only Memory, Magnetic Tape Drives.

### UNIT – II

#### **Number System:**

Decimal, Binary, Octal, Hexa-decimal. Conversion - Decimal to all other number systems, Binary to octal and Hexa Decimal, Addition of binary numbers, Binary subtraction, Use of complements to represent negative numbers, Conversion of a binary fraction to a decimal fraction and decimal to binary fraction, Binary Coded Decimal(BCD), ASCII Codes, EBCDIC codes, Gray codes, Unicodes.

#### **Algorithm and Flowcharts:**

Algorithm: Definition, Characteristics, Advantages and disadvantages, Examples

Flowchart: Definition, Define symbols of flowchart, Advantages and disadvantages, Examples

### UNIT – III

#### **Computer Software:**

System software, assemblers, compilers, interpreters, linkers Elementary , Operating System concepts, different types of operating systems, Application Software.

Introduction to MS Office (MS-Word, MS PowerPoint, MS-Excel)

Computer Programming and Languages: Algorithms, flow chart, decision tables, pseudo code, Low level languages and introduction to high level languages.

### UNIT – IV

#### **Data Communication and Computer Networks:**

Data Transmission mode, Data transmission media, Digital and Analog Transmission

What is computer Network? Network types, Network Topologies, Communication Protocol, OSI Model

### UNIT - V

#### **The Internet:**

Definition, Brief History, Network Types (LAN, WAN and MAN), Client and Servers, Intranet, Extranet. Basic Services, Email, File Transfer Protocol, Telnet, Usenet News, Terminologies related to Internet: Protocol, Domain name, IP address, URL, World Wide Web.

Overview of various services on Internet: E-mail, FTP, Telnet, Chat, Instant Messaging

Internet Search Tools: Gopher, Archie, World Wide Web.

WWW Browsers: Line Browsers, Graphical Browsers, Java Enabled Browsers.

Uses of the Internet: Internet Service Providers and Types of Internet Connection: Direct/Leased line Connection, Remote Dial up Connection, SLIP/PPP Connection

**Text Books:**

1. Alex Leon & Mathews Leon, "Fundamentals of Information Technology", LeonTechworld, 1999.
2. Vikas Gupta, "Comdex Computer Kit", Wiley Dreamtech, Delhi, 2004
3. P. K. Sinha & Priti Sinha , "Computer Fundamentals", BPB Publications, 1992.

**Reference Books:**

1. V. Raja Raman, "Introduction to Computers", PHI, 1998.
  2. Alex Leon & Mathews Leon, "Introduction to Computers", Vikas Publishing House, 1999.
- Norton Peter, "Introduction to computers", 4<sup>th</sup> Ed., TMH, 2001.

## English-I

**Objective:** The objective of this course is to familiarize students about the dynamics of business language and discourse.

### Unit -I

#### Texts: (Any Five)

1. Nirendranath Chakrabarti, "Amalkanti". (From oxford Anthology of Modern Indian Poetry, eds. Dharwadkar and Ramanujan).
2. Toru Dutt, "Sita"
3. Jawaharlal Nehru, "Tryst with Destiny".
4. Mirza Ghalib, "Delhi in 1857".
5. C. Rajagopalachari, Preface to the Mahabharata.
6. Nibir K. Ghosh, "Spiritual Nationalism of Sri Aurobindo".
7. Madhumalati Adhikari, "The Heritage of Indian Culture".
8. Rabindranath Tagore, "Where the Mind is Without Fear".
9. Kabir, one song translated by Tagore.
- 10.M.K. Gandhi, extract from "Satyagraha".
- 11.R.K. Narayan, "Toasted English".
- 12.Ruskin Bond," The Old Lama".
- 13.Khushwant Singh, " The Portrait of a Lady".
- 14.Ashok Mahadevan and Sushan Shetty,"Discovering Babasaheb", Section on "Clash of Titans" (Reader's Digest, December 2006).

### Unit -II

#### Comprehension of an unseen passage:

Questions should be objective/multiple choice, and should test (a) an understanding of the passage in question, and (b) a grasp of general language skills and issues with reference words and usage within the passage.

### Unit -III Paragraph

#### Writing:

Based on expansion of an idea. Word Limit :100-150 words. Candidates to attempt any one of three alternative topics provided

### Unit -IV

#### Basic language skills-Vocabulary:

Synonyms, antonyms, one- word substitution for phrases, prefixes, suffixes and word -derivation. Making sentences with idioms and phrases, corrections of sentences with words likely to be confused. Questions should not repeat examples or exercises given in the textbook.

### Unit -V

#### Basic language skills - Grammar and Usage:

Modals, linking device, tenses and prepositions. Verb forms and structures, gerunds, participles and infinitives, verbs followed by a preposition and phrasal verbs, articles and determiners, countable and uncountable nouns, adjectives and articles. Questions should not repeat the examples or exercises given in the textbooks.

**Hindi-I****आधार पाठ्यक्रम****प्रश्न पत्र - प्रथम****पाठ्य विषय**

**इकाई-1** पल्लवन, पत्राचार तथा अनुवाद एवं पारिभाषिक शब्दावली ।

**इकाई-2** मुहावरे-लोकोक्तियाँ, शब्दशुद्धि, वाक्य शुद्धि, शब्द ज्ञान-पर्यायवाची, विलोम, अनेकार्थी, समश्रुत (समानोचरित) अनेक शब्दों के लिए एक शब्द ।

**इकाई-3** देवनागरी लिपि की विशेषता, देवनागरी लिपि एवं वर्तनी का मानक रूप ।

**इकाई-4** कम्प्यूटर में हिन्दी का अनुप्रयोग, हिन्दी में पदनाम ।

**इकाई-5** हिन्दी अपठित, संक्षेपण, हिन्दी में संक्षिप्तीकरण ।

**पाठ्य क्रम के लिए पुस्तकें -**

- |                                      |   |                                      |
|--------------------------------------|---|--------------------------------------|
| 1. भारतीयता के स्वर साधन धनंजय वर्मा | - | म. प्र. ग्रंथ अकादमी ।               |
| 2. नागरी लिपि और हिन्दी              | - | अनंत चौधरी - ग्रंथ अकादमी पटना ।     |
| 3. कम्प्यूटर और हिन्दी               | - | हरिमोहन - तक्षशिला प्रकाशन, दिल्ली । |

## **Fundamentals of IT LAB**

1. Text Manipulations
2. Usage of Numbering, Bullets, Tools and Headers
3. Usage of Spell Check and Find and Replace
4. Text Formatting
5. Picture Insertion and Alignment
6. Creation of Documents Using Templates`
7. Creation of Templates
8. Mail Merge Concept
9. Copying Text and Picture From Excel
10. Creation of Tables, Formatting Tables
11. Splitting the Screen
12. Opening Multiple Document, Inserting Symbols in Documents

### **MS-EXCEL**

1. Creation of Worksheet and Entering Information
2. Aligning, Editing Data in Cell
3. Excel Function (Date, Time, Statistical, Mathematical, Financial Functions)
4. Changing of Column Width and Row Height (Column and Range of Column)
5. Moving, copying, Inserting and Deleting Rows and Columns
6. Formatting Numbers and Other Numeric Formats
7. Drawing Borders Around Cells
8. Creation of Charts Raising Moving
9. Changing Chart Type
10. Controlling the Appearance of a Chart

### **MS -POWER POINT**

#### Working With Slides

1. Creating, saving, closing presentation
2. Adding Headers and footers
3. Changing slide layout
4. Working fonts and bullets
5. Inserting Clip art: working with clipart,
6. Applying Transition and animation effects
7. Run and Slide Show

### **DOS**

1. Basics of DOS
2. DOS (Internal & External Commands)
3. Use of Wild Card Character

**Year-2**

## Geography Of India

### Unit I :

India as geographical Unit – India's location – Physical contrasts – Physiography – relief, coasts and islands – water resources of India : Rivers – distribution and development of irrigation; tanks, canals, wells and tube wells – major irrigation and multipurpose river valley projects.

### Unit II :

Climate : seasons – temperature and rainfall – Indian monsoon – climate regions.

### Unit III :

Soils – types and distribution – Soil erosion and conservation – natural vegetation – forests ; types – forest as a resource : Agriculture : major food crops and regions – rice, wheat and millets, plantation agriculture – sugarcane, tobacco, jute, cotton, groundnut, castor and mustard – agricultural regions

### Unit IV :

Problems of Indian Agriculture – livestock wealth of India – Indian fisheries.

### Unit V :

Mineral resources : Iron Maganese, Bauxite,Limestone, Copper, Zinc and Gold – distribution and production – power resources : Coal, oil, hydro-electricity, Thermal and atomic power development – distribution and production, Industries : Agro-based industries – textiles – cotton, jute, woollen – sugar ;

### Unit VI :

Metallurgical industries: Iron and Steel, aluminium, engineering and machine tools, automobiles and locomotives, ship building, chemical industries, paper and fertilizer

## REFERENCES

1. Gopal Singh, 1970. Geography of India, Atma Ram Nad Sols.
2. Singh, R.L. India, A Regional Geogrpahy, UBS Publishers and Distributors Ltd., Seena Publication
3. Spate, O.H.K. India and Pakistan
4. Sharma, Economic Geography of India
5. Singh and Memoria, Geography of India
6. Memoria, Agricultural Geography of India
7. Dubey, R.N. 1971, Economic Geography of India

## Geographical Thought

### Unit-I

The field of geography ; its place in the classification of sciences; geography as a selected concepts of geography-distributions; relationships, interactions, area differentiation and spatial organization.

### Unit-II

Dualisms in geography; systematic & Regional geography; physical & human geography. Systematic geography & its relation with systematic sciences and with regional geography. The myth and reality about dualisms.

### Unit-III

Geography in ancient period - Contribution of Indian, Greek & Roman geographers Geography in middleage- Arab geographers, Renaissance periodin Europe. Renowned travellers and their geographical discoveries.

### Unit-IV

German school of thought - Kant, Humboldt, Ritter, Richthofen, Ratzel, Hettner. French school of thought - Contribution of Blache & Brunhes.

### Unit-V

Soviet geographers, American school - Contribution of Davis, Sample, Hunthington & carl sauer. British school - Contribution of Mackinder, Herbertson & L.D. Stamp.

### Books Recommended

1. Abler, Ronald ; Adams, John S. Gould Peter : Spatial Organization : The Geographers View of the World, Prentice Hall, N.J. 1971.
2. Ali S.M. : The Geography of Puranas, Peoples Publishing House, Delhi, 1966.
3. Amedeo, Douglas : An introduction to Scientific Reasoning in Geography, John Wiley, U.S.A. 1971.
4. Dikshit, R.D. (ed.) The Art & Science of Geography Integrated Readings, Prentice Hall of India, New Delhi-1994.
5. Hartshorne, R : Perspective on Nature of Geography, Rand McNally & Co. 1959.
6. Husain, M. : Evolution of Geographic Thought, Rawat Pub.: Jaipur. 1984.



## **Environmental Issues and Management**

### **Unit-I: Conceptual Context**

Environment: Definition, components and interconnectedness of its components; Environment as life-support system, resource field and throughput sink; Human and Environment Interaction: Imprint of technological development, trade and scientific progress on environment; Environmental disorders: Human Impact on land, climate, natural vegetation and impacts of utilization of non-renewable natural resources.

### **Unit-II: Environmental Issues**

Global problems: Global warming, ozone depletion and acid rain (acid deposition); climate change, desertification, population dynamics and food security and disaster; Local and Regional Problems: Extreme hydrological events, deforestation, pollution of air and water; Depletion of fresh water resources and degradation of soils; waste management.

### **Unit-III: Management Strategies**

Uncertainty in managing environmental problems: Uncertainty in risk assessment (magnitude, when and where); Preservation or conservation; Incremental management or all out managing; Problem scale in management; component or integrated management, and community participation in management

### **Unit-IV: Environmental Management**

Management of air and water resources; Management of soil and forest resources; Management of biodiversity; Management of habitats (human as well as animals); population management; Management of disaster, and adaptation to global change.

### **Books Recommended:**

1. Adams, W.M.1995: Green development: Environmental sustainability in the Third World, London: Rout ledge.
2. Alexander, D. 1993: Natural Disasters, New Delhi: Research Press.
3. Allaby, M. 1996: Basics of Environmental science, London: Routlede.
4. Baarrshes, W.H. 1996: Eco-fiction: Understanding the Environmental Debate, London: Routledge.
5. Brayant, E.A.1991: Natural Hazards, Cambridge: Cambridge University press.
6. Canter,L. W.!996: Environmental Impact Assessment, 2nd edition, New Yprk: McGraw hill.
7. Chapman,D.1994: Natural Hazards, Melbourne: Oxford University Press

## Environmental Science

### Unit-1

Diversities of lifeforms- Concept of taxonomy, systematic and classification with respect to plant kingdom, animal kingdom and microbial world.

### Unit-2

Fundamental of chemical equilibrium and reaction kinetics -Stoichiometry, chemical equilibrium, thermodynamics application in reaction process (both chemical and biological process), acid base reaction, solubility products, bioinorganic complexes and their importance.

### Unit-3

Radiation Physics-Electromagnetic radiation characteristics and its biological effects, radioactivity-source, characteristics, and impacts, radiation in diagnosis and therapy of diseases, radioisotopes and radionuclide in biological systems

### Unit-4

Tropical monsoon-causes, and impacts, impacts of climate change on tropical monsoon

### Unit-5

Noise Pollution- source of noise, distinction between sound and noise, noise impacts, noise monitoring and control strategies

### REFERENCE

- a) Agarwal, K.C. 2001 Environmental Biology, Nidi Publ. Ltd. Bikaner.
- b) Bharucha Erach, The Biodiversity of India, Mapin Publishing Pvt. Ltd., Ahmedabad – 380 013, India, Email:mapin@icenet.net (R)
- c) Brunner R.C., 1989, Hazardous Waste Incineration, McGraw Hill Inc. 480p
- d) Clark R.S., Marine Pollution, Clarendon Press Oxford (TB)
- e) Cunningham, W.P. Cooper, T.H. Gorhani, E & Hepworth, M.T. 2001, Environmental Encyclopedia, Jaico Publ. House, Mumabai, 1196p
- f) De A.K., Environmental Chemistry, Wiley Eastern Ltd.
- g) Down to Earth, Centre for Science and Environment (R)
- i) Hawkins R.E., Encyclopedia of Indian Natural History, Bombay Natural History Society, Bombay (R)
- .k) Jadhav, H & Bhosale, V.M. 1995. Environmental Protection and Laws. Himalaya Pub. House, Delhi 284 p.
- l) Mckinney, M.L. & School, R.M. 1996. Environmental Science systems & Solutions, Web enhanced edition. 639p.

## English -II

### Unit-I (Any Five)

1. Walt Whitman – O Captain! My Captain!
2. George Orwell – What is Science
3. J. Bronowski - The Dilemma of The Scientist
4. Will Durant – The Origin of Science
5. Somerset Maugham – The Luncheon
  - Henry The Last Leaf
6. Major Ancient Indian Scientist Adopted
7. C.P Snow- Ramanujan
8. Aldous Huxley – J.C.Bose
9. Human Rights
10. R.K Narayan – The Axe
11. Dr. C.V Raman - Water
12. Robert Frost – stopping by Woods on a Snow evening
13. Dr. Yashodhara Mishra – Understanding Gender issues.

### Unit-II

Comprehension of an unseen passage question should be objective/Multiple - choice and should test (a) an understanding of the passage in question, and (b) a group of general language skills and issues with Reference Word and usage Within the passage.

### Unit-III

Paragraph Writing: - Based on expansion word limit 100-150 words. Candidates to attempt any one of three alternative topics provided.

### Unit-IV

Basic language Skill-Vocabulary Synonyms Antonyms one word Substitution of Phrases, Prefixes, Suffixes and word Derivation making Sentence With Idioms and Phrases Corrections of Sentence With Words Likely to be Confused Question Should not repeat the Examples Or exercises given in the text book

### Unit-V

Basic language Skill- Grammar and Usage modals linking devices, tenses, and preposition verb forms Structures Gerunds Participles and infinitive, verbs followed by a preposition and phrasal verbs, articles and determines Countable and uncountable nouns adjectives, and adverbs. Questions Should not repeat the example exercise given in the text book

**Hindi -II****भाग - दो, आधार पाठ्यक्रम  
( हिन्दी भाषा )**

**खण्ड-क** निम्नलिखित 5 लेखकों के एक-एक निबंध पाठ्यक्रम में सम्मिलित होंगे -

1. महात्मा गांधी - सत्य और अहिंसा
2. विनोबा भावे - ग्राम सेवा
3. आचार्य नरेन्द्र देव - युवकों का समाज में स्थान
4. वासुदेव शरण अग्रवाल - मातृ-भूमि
5. भगवतशरण उपाध्याय - हिमालय की व्युत्पत्ति
6. हरि ठाकुर - डॉ. खूबचंद बघेल

**खण्ड-ख** हिन्दी भाषा और उसके विविध रूप

- कार्यालयीन भाषा
- मीडिया की भाषा
- वित्त एवं वाणिज्य की भाषा
- मशीनी भाषा

**खण्ड-ग** अनुवाद व्यवहार : अंग्रेजी से हिन्दी में अनुवाद

हिन्दी की व्यवहारिक कोटियाँ-

रचनागत प्रयोगगत उदाहरण, संज्ञा, सर्वनाम, विशेषण, क्रिया विशेषण, समास, संधि एवं संक्षिप्तियाँ, रचना एवं प्रयोगगत विवेचन ।

**Year-3**

BAGEO301

External Marks: 70

Internal Marks: 30

## **Introduction to Cartography**

### **UNIT-I: MAP INTRODUCTION**

Map: Definition, Significance, Classification and Usefulness

### **UNIT-II: SCALES**

Definition of scale; Methods of scale representation on a map; drawing of plane, comparative and diagonal scales; Calculation of radii of small circles on the globe, calculation of R.F. from arcs of meridians and parallels.

### **UNIT-III: ELEMENTS OF GLOBE**

Globe V/s Map: Concept of small and great circle; Parallels of latitude and meridian of Longitude, graticule of parallels and meridians, locating points on the globe.

### **UNIT-IV: MAP PROJECTIONS**

Definition, general Principles and Classification of map projection; Graphical Construction of Cylindrical Projections: Mercator's, and equal area; Conical projections; Polyconic, Bonnes, One standard two standard parallels. Zenithal: Gnomonic, Stereographic and Ortho graphic projections.

#### **Books Recommended:**

1. M.Ishteyaq, ( ) Practical Geography
2. Mahmood .A. (2000) Statistical Methods in Geographical Studies, Rajesh Publications  
Ansari Road, New Delhi-2.
4. Sharma, J.P. 2010, Practical Geography, Rastogi Publication, Meerut.

## Geography of Soil

### Unit-I: Basic Concepts and Processes

Soil: Nature, Scope and significance; Soil Geography and Pedology; Process of Soil formation and its Factors; Soil Profile and development: Soil catena, Pedologic Regimes, Podolization, Laterization, Calcification and gleization.

### Unit-II: Soil Organisms and Soil Properties

Macro and micro organisms □ Like earthworms, snow bugs, mites, cetipedes, rodents, insects, nematodes, Protozoa rotifers, algae and fungi, bacteria and actinomyces); Physical and Chemical properties of the soil.

### Unit-III: Soil Classification and Evaluation

Genetic and Taxonomic classifications; Seventh approximation; Evaluation of land and Soil( Parametric and non-parametric; soil surveys and modern techniques: Remote Sensing and GPS).

### Unit IV: Soil Reclamation and Management

Soil erosion and conservation; Reclamation of soils; Integrated soil and water management; Sustainable development of soil resources with reference to India.

### Books Recommended

1. Backman, H.O., and N.C.Brady, 1960.The Nature and Properties of Soils, Mc Millan, NY.
2. Bunting,B.T; 1973. The Geography of Soils,Hutchinson,London.
3. Foth,H.D; and L.M,Turk,1972.Fundamentals of soil Science,John Wiley,NY.
4. Govinda, R.S.V. and H.G.Gopala Rao, 1978.Studies on Soils of India, Vikas, New Delhi.
5. Mc Bride,M.B; 1999. Environmental Chemistry of Soils, Oxford University Press,NY.
6. Raychoudhuri, S.P; 1958. Soils of India ICAR, New Delhi.

## **World Regional Geography With Special Reference to Asia**

### **Unit-I**

Political divisions of the world, Concept and types of Regions, Regions and Realms : Natural regions of the world

### **Unit-II**

Concepts and examples of, population Resource Regions. Agricultural regions, Industrial Regions and Economic regions, Developing regions of the world ; The two worlds.

### **Unit-III**

Asia : Physical aspects – physiography, climate, Drainage, vegetation and soil ; Human aspects : minerals & power, agriculture, population, Industries, cities and ports.

### **Unit- IV**

Regional study of countries of Asia : Physical, Economic and Human Aspects specially China, Japan, Pakistan, Iraq, Iran, Indonesia and Malaysia.

### **BOOKS**

1. Heitzelman & Higsmitth - World Regional Geography
2. Bemgston & Vanroyen - World Regional Geography
3. Robinson H - World Regional Geography
4. Unsted J E - Systematic Regional Geography
5. Gohcheng Leong - South West Asia



## **Geography of Resources**

### **Unit-I: Introduction**

Definition of Resources: Context of Becoming resource; Nature of resources: Exhaustibility, degradability, renew ability and substitutability; Resources and market, technology and culture; Significance of Resources: Backbone of Economic growth and development; Pressure on resources.

### **Unit-II: Classification of Resources**

Different approaches to the classification of resources; Exhaustible and inexhaustible, capital and stock, renewable and non-renewable, biotic and abiotic; and Types of resources by their uses.

### **Unit-III: Geographical Patterns of Resource Endowment**

Geographical distribution of major food crops, livestock and fishery resources; Distributional patterns of biodiversity, forests, energy, land, freshwater and mineral resources; and world resource regions.

### **Unit-IV: Conservation and Management of Resources**

Philosophy and Approaches to Conservation of Resources; Conservation of Major Resources: Soil, water, forest and minerals; Importance of biodiversity and its conservation; Resource appraisal and policy making; Management methods of resources; Resource Development and Sustainable resource management.

### **Books Recommended:**

1. Roger Perman, Yue Ma and James Mc Gilvray (1997) Natural Resources and Environmental Economics, II Edition, Addison weley Longman Ltd, Singapore.
2. John Bowers (1997), Sustainability and Environmental Economics, Addison Weley Longman Ltd, Singapore.
3. David W. Pearce and Kerry R. Turner (1999). Economics of Natural Resources and the Environment, The Johns Hopkins University press, Baltimore.
4. Adams, W.M. (1990).Green Development: Environment and Sustainability in the Third world, Routledge and Chapman Hall, New York.
5. Burton, I. and Kates, R.W.(1978): Readings in Resources Management and Conservation, McGraw Hill, New York.

## **ECONOMIC GEOGRAPHY**

### **Unit-I**

Meaning, nature and scope of economic geography, its relation with economics and allied subjects, Types of economics ; sectors of economy and economic activities : primary, secondary and tertiary, Natural resources : concepts and classification, conservation of resources.

### **Unit-II**

Primary occupations and Agriculture, Factors affecting crop production, spatial distribution and trade of major food and cash crops of the world, concept of Agriculture types, Forests, soils Fisheries and wool production.

### **Unit-III**

Major ferrous and non-ferrous minerals and their world distribution, energy & energy (Power) resources ; Industries : factors of localization and types, major industries : steel, textiles and ships building etc.

### **Unit-IV**

Trade and transport : Geographical factors in their development, major water, land and air transport routes International trade : direction and composition, trade organization (WTO) and globalization and their effect on developing countries of the world.

### **BOOKS:**

1. Alexander, J.W., Economic Geography
2. Robinson, A.H. Jones, C.F. and Darkenward G.G. Principles of Economic Geography.
3. Boesh, Hans, A Geography of World Economy.
4. Bengston and Reyen, Fundamentals of Economic Geography.
5. Zimmerman, E.W. Introduction to World Resources.

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## English -III

**Unit-1** Essay type answers in about 200 words. Four essay types question to be asked and two be attempted.

**Unit-2** Writing skills for composition- Essay writing.

**Unit-3** Précis writing.

**Unit-4** (a) reading comprehension of an unseen passages.

(b) Vocabularye based on text.

**Unit-5** Grammar: Advanced Exercises.

Note- Question on unit I and IV (b) shall be asked from the prescribed text. Which will comprise of popular creative writings and the following items.

Minimum needs: Housing and transport, Geo-economic profile of C.G. of education and culture, Women empowerment , Management of change (Physical quality of life) . War and human survival. The question of human social value, new Economic philosophy recent liberalization methods democratic decentralization (with reference to 73, 74 constitutional amendment.)

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## Hindi -III

### हिन्दी भाषा

॥ सम्प्रेषण कौशल, हिन्दी भाषा और सामान्य ज्ञान ॥

- इकाई - 1 (क) भारत माता : सुमित्रानंदन पंत, परशुराम की प्रतीज्ञा : रामधारी सिंह दिनकर, बहुत बड़ा सवाल : मोहन राकेश, संस्कृति और राष्ट्रीय एकीकरण : योगेश अटल ।  
(ख) कथन की शैलियाँ : रचनागत उदाहरण और प्रयोग ।
- इकाई -2 (क) विकासशील देशों की समस्याएँ, विकासात्मक पुनर्विचार, और प्रौद्योगिकी एवं नगरीकरण ।  
(ख) विभिन्न संरचनाएँ ।
- इकाई - 3 (क) आधुनिक तकनीकी सभ्यता, पर्यावरण प्रदूषण तथा धारणीय विकास ।  
(ख) कार्यालयीन पत्र और आलेख ।
- इकाई - 4 (क) जनसंख्या : भारत के संदर्भ में और गरीबी तथा बेरोजगारी ।  
(ख) अनुवाद ।
- इकाई - 5 (क) ऊर्जा और शक्तिमानता का अर्थशास्त्र ।  
(ख) घटनाओं, समारोहों आदि का प्रतिवेदन और विभिन्न प्रकार के निमंत्रण-पत्र ।

