

**MODIFIED CBCS  
CURRICULUM OF  
GEOGRAPHY GENERAL  
PROGRAMME**

**FOR UNDER GRADUATE COURSES  
UNDER M.D.S. UNIVERSITY, AJMER**

**TO BE IMPLEMENTED FROM ACADEMIC  
SESSION 2023-24 (I YEAR)  
SESSION 2024-25 (II YEAR)  
SESSION 2025-26 (III YEAR)**

# GEOGRAPHY - SEMESTER-1

CORE COURSE –DSC-A:

(Credits: Theory-04, Practicals-02)

Marks : 75 (ESE: 3Hrs) + 25 (Pr 3Hrs)=100

Pass Marks: Th ESE = 30 + Pr ESE =10

Instruction to Question Setter for End Semester Examination (ESE):

There will be three group of questions. Group A is compulsory and will contain ten questions which will be very short answer type consisting of ten questions of 1.5 mark each. Group B will contain 5 short answer type questions of 3 marks each. Group C will contain three units each having two descriptive type questions of fifteen marks each, out of which any one from each unit have to be answered.

Note: There may be subdivisions in each question asked in Theory Examinations.

## PHYSICAL GEOGRAPHY

Theory: 60 Lectures

### Unit - I

Definition of Physical Geography, Solar System, Origin of the earth, Motions of the Earth and its Satellite, Solar and Lunar eclipse, Zones of the interior of the Earth and Geological time scale. Wagoner's theory of continental drift, Plate Tectonics; Isostasy.

### Unit - II

Theories of mountain building — Joly, Kober and Holmes; Diastrophic forces — Faults and folds, Earthquakes and Volcano, Concept Of cycle of Erosion- Davis and Penck; Landforms associated with Fluvial, Glacier, Aeolian, Karst and Coastal landscapes.

### Unit - III

Composition and layers of atmosphere; Insolation and heat budget of the Earth: Temperature and Pressure; Atmospheric circulations- Planetary and local winds; Relief features of Indian Ocean, Distribution of temperature and salinity in oceans; Ocean currents and tides.

### Suggested Books:

1. Strahler, A.H. : Elements of Physical Geography.
2. Wooldridge, S.W.: The Physical Basis of Geography, Logman's Green & Co. London 1959.
3. Mathur. I.R. : Climatology, Mc. Graw Hill, New York.
4. Banerjee, H.C. & D.S. : MosamVigyan, Rajasthan Hindi Granth Academy Jaipur.
5. Gerald, S. : General Oceanography – An Introduction, John Willey & Sons, New York.
6. Finch & Trewarths : Elements of Physical Geography.
7. Sharma. R.C. : Oceanography for Geographers, Chaitanya Publishers, Allahabad.
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11. भौतिक भूगोल: डी. आर. खुल्लर, कल्याणी पब्लिकेशन ।

## GEOGRAPHY PRACTICAL – SEMESTER 1

60 Lectures

Marks: (ESE: 3Hrs) =25

Pass Marks: (ESE) = 10

Instruction to Question Setter for End Semester Examination (ESE):

There will be one Practical Examination of 3Hrs duration. Evaluation of Practical Examination may be as per the following guidelines:

Lab Work = 15 marks (Theory Paper having 5 questions out of which 3 has to be attempted)

Practical record/file = 5 marks

Viva-voce = 5 marks

Four periods of one hour per week per batch of 40 students.

Minimum 15 sheets must be prepared by students and signed by Professor with date otherwise students will be responsible.

### Course Contents:

1. The nature and scope of cartography.
2. Scales - Plain. Diagonal and Comparative.
3. Enlargement, reduction and combination of maps – Square & Ray Method.
4. Methods of Representation of Relief - Hachures, Spot Height, Bench Mark, Hill Shading, Layer tint, Contours. Relief features, Types of Slopes, Valleys, Waterfall, Gorge, Plateau, Conical Hill, Ridge, Saddle & Pass.

### Books Recommended:

1. Singh, R. L. : Elements of Practical Geography, Kalyani Publishers. New Delhi.
2. Robinson, A.H.: Elements of Cartography, John Wiley & Sons, New York.
3. Mishra, RP: Fundamental of Cartography, Macmillan, New Delhi.
4. Sharma, J. P. Prayogik Bhugol, Rastogi Publication, Meerut.
5. Mishra, R.N. Practical Geography Methods and Techniques, Pareek Publication, Jaipur.
6. ts-ih- “kekZ % izk;ksfxd Hkwxksy] jLrksxh izdk”ku] esjBA
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8. प्रायोगिक भूगोल- डॉ पीआर चौहान , वसुन्धरा प्रकाशन ,गोरखपुर
9. प्रायोगिक भूगोल- आर एन मिश्रा; पी के शर्मा ,रावत पब्लिकेशन सेक्टर 3, जवाहर नगर, जयपुर
10. प्रायोगिक भूगोल- डी आर खुल्लर ,कल्याणी पब्लिशर्स, नई दिल्ली

## GEOGRAPHY - SEMESTER-2

CORE COURSE –DSC-A:

(Credits: Theory-04, Practicals-02)

Marks : 75 (ESE: 3Hrs) + 25 (Pr 3Hrs)=100

Pass Marks: Th ESE = 30 + Pr ESE =10

Instruction to Question Setter for End Semester Examination (ESE):

There will be three group of questions. Group A is compulsory and will contain ten questions which will be very short answer type consisting of ten questions of 1.5 mark each. Group B will contain 5 short answer type questions of 3 marks each. Group C will contain three units each having two descriptive type questions of fifteen marks each, out of which any one from each unit have to be answered.

Note: There may be subdivisions in each question asked in Theory Examinations.

### GEOGRAPHY OF RAJASTHAN

Theory: 60 Lectures

#### Unit - I

Rajasthan: Location; Physiographic Regions; Geological structure; Climate and Climatic regions; Drainage system and lakes; Soil types and regions, erosion and conservation: Vegetation – types and Distribution. Land utilization in Rajasthan.

#### Unit - II

Agriculture — types and characteristics, production and distribution of Bajra, Wheat, Maize, Cotton, Mustard, Sugarcane. Major irrigation projects- Chambal, Mahi and Indira Gandhi Canal Project (I.G.C.P.); Distribution and production of minerals — Metallic and Non-metallic; Power Resources — Coal, Petroleum and Natural Gas; Hydel and non-conventional energy resources, distribution and production of Cotton Textile, Sugar and Cement Industries.

#### Unit - III

Population: Distribution and density; Population structure — age and sex ratio, urban and rural, literacy, population growth causes, problems and solutions. Social and cultural status of major tribes — Bhil, Grassia, Meena, Saharia, Status of Women in Rajasthan.

#### Suggested Books:

1. Mishra, V.C.: Geography of Rajasthan, N.B. T. Delhi.
2. Chauhan, T. C. Geography of Rajasthan, Scientific Publication, Jodhpur.
3. Bhalla, L.R. : Geography of Rajasthan, Kuldeep Publication, Ajmer.
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## **GEOGRAPHY PRACTICAL - SEMESTER - 2**

60 Lectures

Marks : Pr (ESE: 3Hrs) =25

Pass Marks: Pr (ESE) = 10

Instruction to Question Setter for End Semester Examination (ESE):

There will be one Practical Examination of 3 Hrs duration. Evaluation of Practical Examination may be as per the following guidelines:

Lab Work = 15 marks (Theory Paper having 5 questions out of which 3 has to be attempted)

Practical record/file = 5 marks

Viva-voce = 5 marks

Four periods of one hour per week per batch of 40 students.

Minimum 15 sheets must be prepared by students and signed by Professor with date otherwise students will be responsible.

### **Course Contents:**

Study of Topographical sheets - Scheme of Indian topo-sheets. Interpretation of a hilly and a plain area of India in respects of relief, drainage, Human settlement, Transport & Communication Pattern, Profile Drawing.

Representation Of Geographical Data by Diagrams-One- Dimensional Diagram- Line-Polyline, Bar-Simple, Compound Multiple, Pyramid- Simple, Superimposed, Compound, Two-Dimensional Diagram - Square, Rectangle, Ring, Divided Circle, Three-Dimensional Diagram Sphere, Block pile.

### **Books Recommended:**

1. Singh, R. L. : Elements of Practical Geography, Kalyani Publishers. New Delhi.
2. Robinson, A.H.: Elements of Cartography, John Wiley & Sons, New York.
3. Mishra, RP: Fundamental of Cartography, Macmillan, New Delhi.
4. Sharma, J. P. Prayogik Bhugol, Rastogi Publication, Meerut.
5. Mishra, R.N. Practical Geography Methods and Techniques, Pareek Publication, Jaipur.
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8. प्रायोगिक भूगोल- डॉ पीआर चौहान , वसुन्धरा प्रकाशन , गोरखपुर
9. प्रायोगिक भूगोल- आर एन मिश्रा; पी के शर्मा , रावत पब्लिकेशन सेक्टर 3, जवाहर नगर, जयपुर
10. प्रायोगिक भूगोल- डी आर खुल्लर , कल्याणी पब्लिशर्स, नई दिल्ली

## **GEOGRAPHY - SEMESTER-3**

CORE COURSE –DSC-A:

(Credits: Theory-04, Practicals-02)

Marks : 75 (ESE: 3Hrs) + 25 (Pr 3Hrs)=100

Pass Marks: Th ESE = 30 + Pr ESE =10

Instruction to Question Setter for End Semester Examination (ESE):

There will be three group of questions. Group A is compulsory and will contain ten questions which will be very short answer type consisting of ten questions of 1.5 mark each. Group B will contain 5 short answer type questions of 3 marks each. Group C will contain three units each having two descriptive type questions of fifteen marks each, out of which any one from each unit have to be answered.

Note: There may be subdivisions in each question asked in Theory Examinations.

### **HUMAN GEOGRAPHY**

**Theory: 60 Lectures**

#### **UNIT – I**

Definition, nature, scope, development and history of Human Geography; Principles of Human Geography; Elements of Human Geography - according to Vidal de-la-Blanche, Brunhes, Huntington; Branches of Human geography; Concepts of man environment relationship. Concept of dualism in geography.

#### **UNIT – II**

Division of races of Mankind: spatial distribution, physical and social profile of racial groups. Early economic activities of mankind: food gathering, hunting, fishing and shifting cultivation. Human adaptation to environment (i) Cold Region - Eskimo; (ii) Hot, Region- Bushman, Pigmy, Bedouins (iii) Plateau - Kirghiz, Masai, Gonds (iv) Mountain - Gujjars, Naga (v) Plain-Bhil and Santhal.

#### **UNIT – III**

Distribution of population, world distribution pattern - physical, economic and social factors influencing spatial distribution; concepts of over population, under population and optimum population; demographic transition theory. Migration - types, Ravenstein laws of migration, Concept of Human Development Index.

#### **Suggested Books:**

- 1 Bergwan, Hall, New Edward Jersey, 1995. E: Human Geography; Culture, Connection and Land Scape, Prentice-
- 2 Carr, M : {atterns, Process and change in Human Geography, Me Millan Education London, 1987.
- 3 Fellman, J.L. : Human Geography- Landscapes of Human Activities. Brown and Benchmark Pub., U.S.A. 1997.
- 4 De Blij H.J. : Human Geography, Culture, Society and Space, John Wiley, New York, 1996.

- 5 Maurya, S.D. Human Geography, Pranavcia Publication, Allahabad.
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### **GEOGRAPHY PRACTICAL – SEMESTER-3**

**60 Lectures**

Marks: Pr (ESE: 3Hrs) =25

Pass Marks: Pr (ESE) = 10

Instruction to Question Setter for End Semester Examination (ESE):

There will be one Practical Examination of 3Hrs duration. Evaluation of Practical Examination may be as per the following guidelines:

- |                       |   |
|-----------------------|---|
| Lab Work              | = 15 marks (Theory Paper having 5 questions out of which 3 has to be attempted) |
| Practical record/file | = 5 marks   |
| Viva-voce             | = 5 marks   |

Four periods of one hour per week per batch of 40 students.

Minimum 15 sheets must be prepared by students and signed by professor with date otherwise students will be responsible.

#### **Course Contents:**

1. Types and uses of cartographic symbols - point, line and area symbols.
2. Classification of distribution maps- Qualitative Maps (Choro Schematic & Choro Chromatic), Quantitative Maps (Choropleth, Isopleth, Dot, Dot & Circle, Dot & Sphere Maps)
3. Traffic-flow diagram. Simple and Compound Windrose, Chirograph, Hythergraph and Climatograph.

#### **Books Recommended:**

1. Singh, R. L. : Elements of Practical Geography, Kalyani Publishers. New Delhi.
2. Robinson, A.H.: Elements of Cartography, John Wiley & Sons, New York.
3. Mishra, RP: Fundamental of Cartography, Macmillan, New Delhi.
4. Sharma, J. P. Prayogik Bhugol, Rastogi Publication, Meerut.
5. Mishra, R.N. Practical Geography Methods and Techniques, Pareek Publication, Jaipur.
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9. प्रायोगिक भूगोल- आर एन मिश्रा; पी के शर्मा , रावत पब्लिकेशन सेक्टर 3, जवाहर नगर, जयपुर
10. प्रायोगिक भूगोल- डी आर खुल्लर , कल्याणी पब्लिशर्स, नई दिल्ली

## **GEOGRAPHY - SEMESTER-4**

CORE COURSE –DSC-A:

(Credits: Theory-04, Practicals-02)

Marks : 75 (ESE: 3Hrs) + 25 (Pr 3Hrs)=100

Pass Marks: Th ESE = 30 + Pr ESE =10

Instruction to Question Setter for End Semester Examination (ESE):

There will be three group of questions. Group A is compulsory and will contain ten questions which will be very short answer type consisting of ten questions of 1.5 mark each. Group B will contain 5 short answer type questions of 3 marks each. Group C will contain three units each having two descriptive type questions of fifteen marks each, out of which any one from each unit have to be answered.

Note: There may be subdivisions in each question asked in Theory Examinations.

### **GEOGRAPHY OF INDIA**

Theory: 60 Lectures

#### **Unit - I**

Geographical Location of India; Physiography of India; Drainage systems; Climate of India, Monsoon; Koepenn's climatic regions of India. Soil types - distribution and characteristics, Natural Vegetation types, distribution and conservation.

#### **Unit - II**

Spatial distribution of population and density: Socio Economic implications of population explosion: urbanization, Gender discrimination. Types of Agriculture, Green revolution vis-vis traditional farming; Agricultural regions and its relevance in agricultural development planning. Major crops of India viz. wheat. rice, sugarcane, cotton jute, coffee, tea; Dairy Farming;

#### **Unit - III**

Minerals Resources: - iron-ore, copper, manganese and Sources of Power Coal. Petroleum, hydropower, atomic energy. Resources Regions of India: Industries - Iron and steel, textile, cement, aluminium, industrial regions of India. Transportation – railways, road, air and water. Planning regions of India.

#### **Suggested Books :**

1. Deshpande C.D. : India -A Regional Interpretation. Northern Book Centre. New Delhi, 1992.
2. Singh R.L. (ed) : India - A Regional Geography, National Geographical Society, India. Varanasi, 1971.
3. Singh : O.H.K. and Leammonth, A.T.A. : India and Pakistan - land people and Economy, Methucn& Co ., London. 1967.

4. Wadia, D.N. : Geography of India, McMillan & Co ., London 1967,
5. Khullar DR: India (A Comprehensive Geography) Kalyani Publication, New Delhi.
6. Negi, Geography of India.
7. Govt of India : Five Year Plans of India.
8. Indian Year Book of (Latest India. Edition) : Publication Division, Delhi.
9. Chattrji, S.B. : Climatology of India ( Calcutta University, Calcutta)
10. Gazetteers of India: Publication Division, New Delhi.
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#### **GEOGRAPHY PRACTICAL – SEMESTER-4**

**60 Lectures**

Marks: Pr (ESE: 3Hrs) =25

Pass Marks: Pr (ESE) = 10

Instruction to Question Setter for End Semester Examination (ESE):

There will be one Practical Examination of 3Hrs duration. Evaluation of Practical Examination may be as per the following guidelines:

Lab Work	= 12 marks (Theory Paper having 5 questions out of which 3 has to be attempted)
Practical record/file	= 4 marks
Field Work	= 5 marks
Viva-voce	= 4 marks

Four periods of one hour per week per batch of 40 students.

Minimum 15 sheets must be prepared by students and signed by Professor with date otherwise students will be responsible.

#### **Course Content:**

Statistical methods - computation of Data, Preparation of frequency tables, Graphical presentation of frequencies distribution. Histogram. Frequency polygon. Frequency curve and ogive. Mean, Median and Mode.

Plane Table Survey – Re-Sectioning (Two and Three-Point Problems). Mechanical Method, Llano's, Bassel's and Trial and error.

#### **Books Recommended:**

1. Singh, R. L. : Elements of Practical Geography, Kalyani Publishers. New Delhi.

2. Robinson, A.H.: Elements of Cartography, John Wiley & Sons, New York.
3. Mishra, RP: Fundamental of Cartography, Macmillan, New Delhi.
4. Sharma, J. P. Prayogik Bhugol, Rastogi Publication, Meerut.
5. Mishra, R.N. Practical Geography Methods and Techniques, Pareek Publication, Jaipur.
6. ts-ih- “kekZ % izk;ksfxd Hkwxksy] jLrksxh izdk”ku] esjBA
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8. प्रायोगिक भूगोल- डॉ पीआर चौहान , वसुन्धरा प्रकाशन , गोरखपुर
9. प्रायोगिक भूगोल- आर एन मिश्रा; पी के शर्मा , रावत पब्लिकेशन सेक्टर 3, जवाहर नगर, जयपुर
10. प्रायोगिक भूगोल- डी आर खुल्लर , कल्याणी पब्लिशर्स, नई दिल्ली

## **GEOGRAPHY SEMESTER – 5 CORE COURSE –DSC-A**

CORE COURSE –DSC-A:

(Credits: Theory-04, Practicals-02)

Marks : 75 (ESE: 3Hrs) + 25 (Pr 3Hrs)=100

Pass Marks: Th ESE = 30 + Pr ESE =10

Instruction to Question Setter for End Semester Examination (ESE):

There will be three group of questions. Group A is compulsory and will contain ten questions which will be very short answer type consisting of ten questions of 1.5 mark each. Group B will contain 5 short answer type questions of 3 marks each. Group C will contain three units each having two descriptive type questions of fifteen marks each, out of which any one from each unit have to be answered.

Note: There may be subdivisions in each question asked in Theory Examinations.

### **ECONOMIC AND RESOURCE GEOGRAPHY**

Theory: 60 Lectures

#### **Unit - I**

Meaning and scope of Economic Geography, geographical factors affecting economic activities, economic activities of man- primary, secondary and tertiary, types of agriculture and agricultural regions of world (Whittlesey), production and distribution of important crops- Rice, Wheat, Cotton, Sugarcane, Tea, Coffee.

#### **Unit- II**

Important minerals and their world distribution - Iron ore, Copper, Aluminium, Coal, Petroleum, Major manufacturing industries and their localization - Iron and steel and Cotton Textile, WTO and Globalization, its effect on developing countries.

#### **Unit - III**

Definition and classification of resources, Natural resources - Forest and Soil, their distribution, exploitation and conservation, marine resources - biotic resources and sustainable development, resource regions of the world.

**Suggested Books :**

1. Alexander, J.W. : "Economic Geography" Prentice Hall.
2. Jones and Darkenwald. "Economic Geography" Macmillan.
3. Miller E. : "Geography of Manufacturing" Prentice Hall.
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**GEOGRAPHY PRACTICAL- SEMESTER 5**

60 Lectures

Marks : Pr (ESE: 3Hrs) =25

Pass Marks: Pr (ESE) = 10

Instruction to Question Setter for End Semester Examination (ESE):

There will be one Practical Examination of 3Hrs duration. Evaluation of Practical Examination may be as per the following guidelines:

Lab Work = 15 marks (Theory Paper having 5 questions out of which 3 has to be attempted)

Practical record/file = 5 marks

Viva-voce = 5 marks

Four periods of one hour per week per batch of 40 students.

Minimum 15 sheets must be prepared by students and signed by professor with date otherwise students will be responsible.

**Course Contents:**

1. Projection - General principles, classification and choice of projections. Construction. Properties. Merit and demerits, limitations and use of projections. Projections suitable for map of India.
2. Cylindrical: Simple, Equal area. Galls and Mercator's projection. Zenithal (Polar case) : Equidistant, Equal Area, Gnomonic, Orthographic. Stereographic, Conical: One standard parallel, two standard parallels, Bonne's and ploy conic. Conventional: Mollweide's and Sinusoidal projection.

**Books Recommended :**

11. Singh, R. L. : Elements of Practical Geography, Kalyani Publishers. New Delhi.
12. Robinson, A.H.: Elements of Cartography, John Wiley & Sons, New York.
13. Mishra, RP: Fundamental of Cartography, Macmillan, New Delhi.
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19. प्रायोगिक भूगोल- आर एन मिश्रा; पी के शर्मा , रावत पब्लिकेशन सेक्टर 3, जवाहर नगर, जयपुर
20. प्रायोगिक भूगोल- डी आर खुल्लर , कल्याणी पब्लिशर्स, नई दिल्ली

## **GEOGRAPHY SEMESTER – 5 ELECTIVE COURSE –DSE-1A**

ELECTIVE COURSE –DSE-1A:

(Credits: Theory-04, Project-01)

Marks : 75 (ESE: 3Hrs) + 25 (Pr 3Hrs)=100

Pass Marks: Th ESE = 30 + Pr ESE =10

Instruction to Question Setter for End Semester Examination (ESE):

There will be three group of questions. Group A is compulsory and will contain ten questions which will be very short answer type consisting of ten questions of 1.5 mark each. Group B will contain 5 short answer type questions of 3 marks each. Group C will contain three units each having two descriptive type questions of fifteen marks each, out of which any one from each unit have to be answered.

Note: There may be subdivisions in each question asked in Theory Examinations.

### **SETTLEMENT GEOGRAPHY**

**Theory: 60 Lectures**

#### **Unit - I**

Definition, Nature and scope of settlement geography; Types of settlements, Factors affecting the origin and growth of settlements, Origin and growth of Rural Settlement: Pattern and classification, house types and building Material.

#### **Unit - II**

Nature and scope of Urban Geography, Origin and growth of towns during ancient. Medieval and Modern period. Factors affecting the growth. site and situation, Trends of Urbanizations in India since 1901. Functional classification of cities. Urban economic base - the basis and non-basis concept. Urban hierarchy based on functions. Urban Morphology (concentric zone theory, sector theory and multiple nuclei theories) Urban Land use- city core. commercial. residential and industrial areas.

#### **Unit – III**

Models and Theories of urban growth and structure: the rank size rule, the primate city, the central place theory Contemporary urban issues and problems. City – Region Relationship Umland. Rural-Urban fringe, suburbs. Principles of town planning.

**Suggested Books :**

1. Bose, A ., India's Urbanization 1947-2000, Tata McGraw Hill, New Delhi
2. Carter H ., The Study of Urban Geography, Edward Arnold, London, 1972
3. Chisholm, M ., Rural Settlement and Land Use. Hutchinson. London, 1970
4. Clout. R.D ., Rural Geography, Pergamon Press, London, 1970
5. Dickinson, R.E ., City. Region and Regionalism, Kegan Paul, Trench, Trubner & Co ., London,
6. Ghosh. Sumita, Introduction to Settlement Geography, Orient Longman, Calcutta, 1998
7. Krishan, G ., Nagar Bhoogol, Punjab State University Text Book Board, Chandigarh (Punjab)
8. Mayer. H.M. & Kohn, C.F.(eds.). Readings in Urban Geography, Chicago Printing Press. Chicago
9. Tkks”kh]jr % uxjh; Hkwksy] jktLFkku fgUnh xzaFk vdkneh] t;iqjA
10. caly ,l-lh- % uxjh; HkwksyA

**GEOGRAPHY PROJECT- DSE 1 A**

Marks : Pr (ESE: 3Hrs) =25

Pass Marks: Pr (ESE) = 10

Instruction to Question Setter for End Semester Examination (ESE):

End Semester Examination (ESE):

Evaluation of project work may be as per the following guidelines:

- Project model (if any) and the Project record notebook = 15 marks
- Project presentation and viva-voce = 10 marks

Overall project dissertation may be evaluated under the following heads:

- Motivation for the choice of topic
- Project dissertation design
- Methodology and Content depth
- Results and Discussion
- Future Scope & References
- Presentation style
- Viva-voce

**PROJECT COURSE CONTENT:**

Case study of a settlement, observations of its various characteristics- structure, form, house types, building material, functions, population characteristics, transport, market etc. The student is expected to write a report and present it for the viva-voce examination.

**IMPORTANT NOTE:**

Student alone or in a group of not more than five, shall undertake one Project approved by the Subject Teacher/H.O.D. of the Department/College concerned. The progress of the Project shall be monitored by the faculty members at regular intervals.

## **GEOGRAPHY SEMESTER – 5 ELECTIVE COURSE – DSE-1 B**

ELECTIVE COURSE – DSE-1 B:

(Credits: Theory-04, Project-01)

Marks: 75 (ESE: 3Hrs) + 25 (Pr 3Hrs) =100

Pass Marks: Th ESE = 30 + Pr ESE =10

Instruction to Question Setter for End Semester Examination (ESE):

There will be three group of questions. Group A is compulsory and will contain ten questions which will be very short answer type consisting of ten questions of 1.5 mark each. Group B will contain 5 short answer type questions of 3 marks each. Group C will contain three units each having two descriptive type questions of fifteen marks each, out of which any one from each unit have to be answered.

Note: There may be subdivisions in each question asked in Theory Examinations.

### **ENVIRONMENT GEOGRAPHY**

**Theory: 60 Lectures**

#### **Unit - I**

Concept, Nature and scope of geography of environment, concept of ecology and ecosystem- definition and elements; Trophic levels, food chain and food web, energy flow in ecosystem. Bio-geo Chemical Cycles, Man-environment relationship.

#### **Unit - II**

Degradation of Environment, Environmental Pollution, water, air, noise, soil, solid waste; bio-diversity and its conservation, global warming. Global ecological imbalance - problems of Population, Resources and Ecological crisis. Environment and quality of life.

#### **Unit - III**

Environmental Management - Management of forest, soil, wildlife, environmental education, Conservation of natural resources. Ecological planning for sustainable development in India, Environmental policies and programmes (international and national); Disaster management - types, components and role of peoples.

Books Recommended:

1. Batel, B. (ed.): Management of Environment, Wiby Eastern Ltd ., New Delhi, 1980.

2. Desh Bandhu (ed.) : Environmental Management, Indian Environment Society, New Delhi.
3. Singh & Singh (eds): Geography of Environment, Concept, New Delhi.
4. Savinder Singh: Geography of Environment, Allahabad.
5. Murdock, W. (ed) : Environment Resources, Pollution and Society Sin over Association Inc. Pub. Sundarlary, Massachusetts.
6. 6. Gupta & Gurjar : Sustainable Development, Rawat Pub ., Jaipur.
7. 7 . Brij Gopal: Element of Ecology.
8. Strahler, A.N. : Geography and Man's Environment, John Willey.
9. 12. Centre for Science & Environment : The State of India Environment. A Citizen's Report 1982, 1985, New Delhi.

## **GEOGRAPHY PROJECT - DSE -1B**

Marks : Pr (ESE: 3Hrs) =25

Pass Marks: Pr (ESE) = 10

Instruction to Question Setter for End Semester Examination (ESE):

End Semester Examination (ESE):

Evaluation of project work may be as per the following guidelines:

- Project model (if any) and the Project record notebook = 15 marks
- Project presentation and viva-voce = 10 marks

Overall project dissertation may be evaluated under the following heads:

- Motivation for the choice of topic
- Project dissertation design
- Methodology and Content depth
- Results and Discussion
- Future Scope & References
- Presentation style
- Viva-voce

### **PROJECT COURSE CONTENT:**

Case study of a Region's Environment, observations of its various characteristics – Issues, Challenges, Strategies, future prospects, etc. The student is expected to write a report and present it for the viva-voce examination.

### **IMPORTANT NOTE:**

Student alone or in a group of not more than five, shall undertake one Project approved by the Subject Teacher/H.O.D. of the Department/College concerned. The progress of the Project shall be monitored by the faculty members at regular intervals.

## GEOGRAPHY SEMESTER – 6 CORE COURSE –DSC-A

CORE COURSE –DSC-A:

(Credits: Theory-04, Practicals-02)

Marks : 75 (ESE: 3Hrs) + 25 (Pr 3Hrs)=100

Pass Marks: Th ESE = 30 + Pr ESE =10

Instruction to Question Setter for End Semester Examination (ESE):

There will be three group of questions. Group A is compulsory and will contain ten questions which will be very short answer type consisting of ten questions of 1.5 mark each. Group B will contain 5 short answer type questions of 3 marks each. Group C will contain three units each having two descriptive type questions of fifteen marks each, out of which any one from each unit have to be answered.

Note: There may be subdivisions in each question asked in Theory Examinations.

### REGIONAL GEOGRAPHY

Theory: 60 Lectures

#### Unit - I

Concept of region, Types of regions, Asia-relief, drainage, climate, natural vegetation, soils, minerals, industries, population, economic development of continent.

Australia - relief, drainage, climate, natural vegetation, minerals, industries, population and demography of continent.

#### Unit - II

Europe - relief, drainage, climate, natural vegetation, minerals, industries and demography of continent.

Africa- relief, drainage, climate, natural vegetation, minerals, industries and demography of continent.

#### Unit - III

North America - relief, drainage, climate, natural vegetation, minerals, industries and demography of continent.

South America - relief, drainage, climate, natural vegetation, minerals, industries and demography of continent.

### Suggested Books

1. Cole, J. "A Geography of the Worlds Major Regions" Routledge, London.
2. Debliz H. : "Geography : Regions And Concept"
3. Minshul Roger, "Regional Geography."
4. flag ,oe~ jko] ^^rhu nf{k.kh egk}hi\*\* olqU/kjk izdk"kuA
5. yky ch % ^^mÙkjh vesfjdk dk Hkwxsy\*\*
6. ekeksfj;k] % ^^izknsf"kd Hkwxsy\*\*
7. विश्व का प्रादेशिक भूगोल -डॉ हरिमोहन सक्सेना, रस्तोगी पब्लिकेशन ,गंगोत्री, शिवाजी रोड, मेरठ
8. विश्व का प्रादेशिक भूगोल- एस डी मौर्य, प्रवालिका प्रकाशन, इलाहाबाद

## GEOGRAPHY PRACTICAL- SEMESTER -6

60 Lectures

Marks : Pr (ESE: 3Hrs) =25

Pass Marks: Pr (ESE) = 10

Instruction to Question Setter for End Semester Examination (ESE):

There will be one Practical Examination of 3Hrs duration. Evaluation of Practical Examination may be as per the following guidelines:

Lab Work = 12 marks (Theory Paper having 5 questions out of which 3 has to be attempted)

Practical record/file = 4 marks

Field Work = 5 marks

Viva-voce = 4 marks

Four periods of one hour per week per batch of 40 students.

Minimum 15 sheets must be prepared by students and signed by professor with date otherwise students will be responsible.

### Course Contents:

Standard deviation, Calculation of coefficient of correlation (Spearman's and Carl Person's), Value-area cartogram. Triangular diagram.

Prismatic compass's survey - importance. Appliances. Methods: Radiation Intersection. Traverse (closed and open traverse) correction of bearings and removal of closing error - Bowditch. Graphical and mathematical method. Calculation of WCB. RB and calculation of included angles (CIA)

### Books Recommended

1. Singh, R. L. : Elements of Practical Geography, Kalyani Publishers. New Delhi.
2. Robinson, A.H.: Elements of Cartography, John Wiley & Sons, New York.
3. Mishra, RP: Fundamental of Cartography, Macmillan, New Delhi.
4. Sharma, J. P. Prayogik Bhugol, Rastogi Publication, Meerut.
5. Mishra, R.N. Practical Geography Methods and Techniques, Pareek Publication, Jaipur.
6. ts-ih- "kekZ % izk;ksfxd Hkwxksy] jLrksxh izdk"ku] esjBA
7. ,e-,l-tSu- % izk;ksfxd Hkwxksy] lkfgR; Hkou] vkxjKA
8. प्रायोगिक भूगोल- डॉ पीआर चौहान , वसुन्धरा प्रकाशन ,गोरखपुर
9. प्रायोगिक भूगोल- आर एन मिश्रा; पी के शर्मा ,रावत पब्लिकेशन सेक्टर 3, जवाहर नगर, जयपुर
10. प्रायोगिक भूगोल- डी आर खुल्लर ,कल्याणी पब्लिशर्स, नई दिल्ली

## **SEMESTER – 6 ELECTIVE COURSE –DSE-2A**

ELECTIVE COURSE –DSE-2A:

(Credits: Theory-04, Project-01)

Marks: 75 (ESE: 3Hrs) + 25 (Pr 3Hrs) =100

Pass Marks: Th ESE = 30 + Pr ESE =10

Instruction to Question Setter for End Semester Examination (ESE):

There will be three group of questions. Group A is compulsory and will contain ten questions which will be very short answer type consisting of ten questions of 1.5 mark each. Group B will contain 5 short answer type questions of 3 marks each. Group C will contain three units each having two descriptive type questions of fifteen marks each, out of which any one from each unit have to be answered.

Note: There may be subdivisions in each question asked in Theory Examinations.

### **POPULATION GEOGRAPHY**

**Theory: 60 Lectures**

#### **Unit - I**

Population geography: definition, nature and scope and interdisciplinary study, theories of population growth - pre-Malthusian views, Malthus' theory, Marxist theory, Optimum population theory, demographic transition model, world population distribution, growth trends and determinants.

#### **Unit - II**

Migration: history, theories, trends and patterns of international and internal migration, population dynamics: fertility and mortality - measurement, determinants and distribution, world population composition and characteristics, world population urbanization, trend pattern and challenges.

#### **Unit - III**

India - population characteristics and relationship with development: population control movement and policies: urbanization and population explosion; contemporary issues - ageing of population: declining sex ratio.

Books Recommended:

Chandra. R.C. : Population Geography. Kalyani Publishers. Delhi.

Garnier. J.B. : Geography of Population. Longman. U.K.

## **GEOGRAPHY PROJECT - DSE 2A**

Marks : Pr (ESE: 3Hrs) =25

Pass Marks: Pr (ESE) = 10

Instruction to Question Setter for End Semester Examination (ESE):

End Semester Examination (ESE):

Evaluation of project work may be as per the following guidelines:

- Project model (if any) and the Project record notebook = 15 marks
- Project presentation and viva-voce = 10 marks

Overall project dissertation may be evaluated under the following heads:

- Motivation for the choice of topic
- Project dissertation design
- Methodology and Content depth
- Results and Discussion
- Future Scope & References
- Presentation style
- Viva-voce

**PROJECT COURSE CONTENT:**

Case study of a Region Population, observations of its various characteristics- structure, growth, population characteristics, factors affecting, future prospects, etc. The student is expected to write a report and present it for the viva-voce examination.

**IMPORTANT NOTE:**

Student alone or in a group of not more than five, shall undertake one Project approved by the Subject Teacher/H.O.D. of the Department/College concerned. The progress of the Project shall be monitored by the faculty members at regular intervals.

## **SEMESTER – 6 ELECTIVE COURSE – DSE-2B**

ELECTIVE COURSE –DSE-2B:

(Credits: Theory-04, Project-01)

Marks: 75 (ESE: 3 Hrs)

Pass Marks: Th ESE = 30

Instruction to Question Setter for End Semester Examination (ESE):

There will be three group of questions. Group A is compulsory and will contain ten questions which will be very short answer type consisting of ten questions of 1.5 mark each. Group B will contain 5 short answer type questions of 3 marks each. Group C will contain three units each having two descriptive type questions of fifteen marks each, out of which any one from each unit have to be answered.

Note: There may be subdivisions in each question asked in Theory Examinations.

**TOURISM GEOGRAPHY**

**Theory: 60 Lectures**

**Unit - I**

Nature and Scope of Geography of Tourism, Factors affecting tourism development, Importance of geography in Tourism, Latitude-Longitude-International Date Line-Time zone-Time differences; types of tourism (Inbound, outbound Inter-regional and intra-regional tourism, domestic, international tourism, adventure, sports, religious, special interest tourism like culture or nature oriented, ethnic or 'roots' tourism, Medical tourism, Rural Tourism; Sustainable Development of Tourism.

### Unit - II

General Tourism Trends in Rajasthan (Domestic & Foreign), Major Tourist Attractions of Rajasthan (Forts & Palaces, Major Lakes, Major Wildlife Sanctuaries & National Parks of Rajasthan, UN Heritage Sites). Major Festivals & Fairs of Rajasthan, Eco- Tourism in Rajasthan.

### Unit - III

Tourist Circuits of Rajasthan with special reference to Merwara-Marwar Circuit. Future possibilities. Challenges and Opportunities, Problems facing by domestic and foreign tourists; Role of Ministry of Tourism in developing and promoting tourism in Rajasthan; Study of State Tourism Policy 2020.

Books Recommended:

1. A.K. Bhatia-Tourism Principles
2. L.K. Singh – Fundamentals of Tourism and Travel.
3. Sumitra Raday Archana Biwal – Tourism operations and Management Vandana Joshi
4. Lkqjs'k pUnz caly% lk;ZVu Hkwxsy
5. jkts'k dqekj O;kl & lk;ZVu mn~Hko ,oa fodkl
6. H.M. Saxena: jktLFkku dk Hkwxsy
7. dY;k.k flag 'ks[kkor & jktLFkkuh laLd`fr
8. eksguyky xqIrK & jktLFkku esa lk;ZVu LFkyas dk izcU/ku yksd dykvksa dk laj{k.k
9. S.K. Bhaseen – Forts and Palaces of Rajasthan
10. jk?kosUnz euksgj & jktLFkku ds izeq[k nqx

## GEOGRAPHY PROJECT - DSE-2B

Marks : Pr (ESE: 3Hrs) =25

Pass Marks: Pr (ESE) = 10

Instruction to Question Setter for End Semester Examination (ESE):

End Semester Examination (ESE):

Evaluation of project work may be as per the following guidelines:

- Project model (if any) and the Project record notebook = 15 marks
- Project presentation and viva-voce = 10 marks

Overall project dissertation may be evaluated under the following heads:

- Motivation for the choice of topic
- Project dissertation design
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- Viva-voce

**PROJECT COURSE CONTENT:**

Case study of a settlement, observations of its various characteristics- structure, form, house types, building material, functions, population characteristics, transport, market etc. The student is expected to write a report and present it for the viva-voce examination.

**IMPORTANT NOTE:**

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