

Department of Geography

Geography Of India (paper code - 101)

B.A 1st Year (Sem. 1st)

Unit-I

1. India: Location, relief structure and drainage systems.
2. Climate, soils, natural vegetation, and natural disasters in India.

Unit-II

3. Population: distribution, density, growth and composition.
4. Migration, human settlement types and levels of urbanization.

Unit-III

5. Land resources, irrigation, regional variations in cropping pattern, Green revolution and problems of Indian agriculture.
6. Energy and mineral resources: coal, petroleum, hydroelectricity and nuclear energy, iron ore, manganese and mica.

Unit-IV

7. Industries- iron and steel, cotton textile, sugar and petrochemical industries; and industrial regions of India.
8. Modes of transport and communication, international trade changing pattern of export and import.



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Bahal - 127 028 (Distt. Bhiwani) Haryana

Department of Geography

Maps & Scales (Practical) (paper code - 102)

B.A 1st Year (Sem. 1st)

Distribution of Marks

Exercises = 15

Record File = 05

Viva-voce = 05

Note: There will be four questions in all and candidate has to attempt three exercises.

1. Introduction to Cartography.

2. Maps and their types.

3. Map Scales. Exercises

(i) Methods of Expressing a scale 2

(ii) Conversion of Statement of Scale into R.F. and vice-versa.

(iii) Plain Scale (Km and mile)

(iv) Comparative Scale 1

(v) Diagonal Scale 1

4 Measurement of Distances and Areas on Maps

5 Enlargement and Reduction of Maps

Suggested Readings:

1. F.J. Monkhouse and H.R. Wilkinson (1972) Maps and Diagrams, Mothuen and Co. Ltd., London

2. L.R. Singh and Raghuvander Singh (1973), Map Work and Practical Geography, Central Book Depot, Allahabad.

3. R.I. Singh and P.K. Dutt (1968), Elements of Practical Geography, Students Friends, Allahabad.

4. Singh Gopal (2004) 4th edition, Map Work and Practical Geography, Viksa Publication House.



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Department of Geography

Physical Geography - I (paper code - 103)

B.A 1st Year (Sem. 2nd)

Unit-I

1. Definition, Nature, scope and fields of Physical Geography.
2. Interior of the earth, Geological time scale and rocks.

Unit-II

3. Earth movements; organic, eperogenic, earth quakes and volcanoes.
4. Theory of Isostasy ; Wegner's theory of continental drift and Plate tectonic theory.

Unit-III

5. Weathering; causes and its types.
6. Mass-movements; causes, its types and impacts.

Unit-IV

7. Concept of cycle of erosion; cycle of erosion by W.M.Davis and
8. Process of Wind, River, Underground water, Glaciers and Sea waves.



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Bahal - 127 028 (Distt. Bhiwani) Haryana

Department of Geography

Representation Of Physical Features (Practical) (paper code - 104)

B.A 1st Year (Sem. 2nd)

Distribution of Marks

Exercises = 15

Record File = 05

Viva-voce = 05

Note: There will be four questions in all and candidate has to attempt three exercises.

Exercises

1. Introduction to Topographical Sheets 3

India and adjacent countries

- . Degree Sheet
- . Half Degree Sheet
- . Quarter Degree Sheet
- . Conventional Signs

2. Methods of representing relief 1

3. Representation of Topographical features by contours. 4

Slopes (Concave, convex, undulating and terraced)

Valleys (V Shaped, U shaped, Gorge, Re-entrant)

Ridges (Conical hill, Volcanic hill, Plateau, Escarpment)

Complex features (waterfall, sea cliff, overhanging cliff, Fiord coast)

4. Drawing of Profiles 5

(a) Cross Profiles: Serial, superimposed, projected and composite profiles.

(b) Longitudinal profiles

Suggested Readings:

1. F.J. Monkhouse and H.R. Wilkinson (1972) Maps and Diagrams, Mothuen and Co. Ltd., London.

2. L.R. Singh and Raghuvander Singh (1973), Map Work and Practical Geography, Central Book Depot, Allahabad.

3. R.I. Singh and P.K. Dutt (1968), Elements of Practical Geography, Students Friends, Allahabad

4. Singh Gopal (2004) 4th edition, Map Work and Practical Geography, Vikas Publication House, New Delhi.



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Bahal - 127 028 (Distt. Bhiwani) Haryana

Department of Geography

Physical Geography - II (paper code - 201)

B.A 2nd Year (Sem. 3rd)

Unit-I

1. Weather and Climate; Origin, composition and structure of atmosphere.
2. Insolation, Global heat budget, Horizontal and vertical distribution of temperature, inversion of temperature.

Unit-II

3. Atmospheric pressure- measurement and distribution, pressure belts, planetary winds, Monsoon, Jet Streams EL NINO- La Nina Phenomenon and Local winds.
4. Humidity- measurement and variables, evaporation, condensation, precipitation forms and types and distribution, hydrological cycle.

Unit-III

5. Air masses- concept and classification; Fronts- type and characteristics, Weather disturbances- tropical and extra-tropical cyclones.
6. Climate classification by Koppen; climatic change and global warming.

Unit-IV

7. Configuration of oceanic floors and surface relief of Pacific, Atlantic and Indian Oceans; temperature and salinity of oceans.
8. Tides, waves and oceanic currents; circulation in Pacific, Atlantic and Indian Oceans; Oceanic resources.



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Bahal - 127 028 (Distt. Bhiwani) Haryana

Department of Geography

Representation Of Climatic Data (Practical) (paper code - 202)

B.A 2nd Year (Sem. 3rd)

Distribution of Marks

Exercises = 15

Record File = 05

Viva-voce = 05

Note: There will be four questions in all and candidate has to attempt three exercises.

1. Measurement of temperature, rainfall, pressure and humidity.
2. Representation of temperature and rainfall.
 - (i) Line and Bar Graph – 1 Exercise.
 - (ii) Distribution of temperature (180 therms) – 1 Exercise.
 - (iii) Distribution of rainfall (180 hytes) – 1 Exercise.
 - (iv) Hythergraph - 1 Exercise.
 - (v) Rainfall deviation diagram - 1 Exercise.
3. Climograph (wet and dry places) - 2 Exercise.
4. Distribution of pressure (180 bars) - 2 Exercise.
5. Weather map Interpretation (January & July) - 2 Exercise.
6. Change and tape survey – 2 Exercise.

Suggested Readings:

1. Mishra R.P. and Ramesh A. 1999. Fundamentals of Cartography, Concept Publishing Company, New Delhi.
2. Monkhouse, FJ, and Wilkinson H.R., 1972. Maps and Diagrams, Methuen Press, London
3. Robinson, A.H. et.al. Elements of Cartography, John Wiley & Sons, 1995.
4. Singh, R.L., 1979. Elements of Practical Geography, Kalyani Publisher, New Delhi.



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Department of Geography

Human Geography - II (paper code - 203)

B.A 2nd Year (Sem. 4th)

Unit-I

1. Nature and scope of Human Geography, Branches of Human Geography, Approaches to the study of Human Geography.
2. Division of Mankind: Spatial distribution of race and tribes of India; concept of man-environment relation : A historical approach.

Unit-II

3. Human adaptation to the environment (i) Cold region – Eskimo (ii) Hot region- Bushman (iii) Plateau – Gonds (iv) Mountains – Gujjars
4. Meaning, nature and components of resources; Classification of resources – renewal and non- renewable ; biotic and abiotic, recyclable and non recyclable. Distribution, utilization and conservation of biotic (flora and fauna) and abiotic (water, minerals and energy) resources.

Unit-III

5. Distribution and density of world population, population growth, fertility and mortality patterns.
6. Concept of over, under and optimum population; Population theories: Malthus, Ricardo and Marx.

Unit-IV

7. Rural settlements: Meaning, classification and types. Urban settlements: Origin, classification and functions of towns.
8. Population pressure, resource use and environment degradation; sustainable development, concept of deforestation, soil erosion, air and water pollution.



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Department of Geography

Maps Projections (Practical) (paper code - 204)

B.A 2nd Year (Sem. 4th)

Distribution of Marks

Exercises = 15

Record File = 05

Viva-voce = 05

Note: There will be four questions in all and candidate has to attempt three exercises.

1. Introduction to Map Projection: Meaning, Classification and importance; Characteristics of latitudes and longitudes lines.
2. Cylindrical projections: Characteristics, applications and drawing; (3)
 - (i) Simple cylindrical projection
 - (ii) Cylindrical equal area projection.
 - (iii) True shape or orthomorphic or Mercator's Projection. (5)
3. Conical Projections: Characteristics, applications and drawing.
 - (i) Simple conical projections with one standard parallel
 - (ii) Simple conical projection with two standard parallel
 - (iii) Bonne's Projection
 - (iv) Polyconic projection.
 - (v) International Map Projection.
4. Zenithal Projections: Characteristics, applications and drawing. (5)
 - (i) Polar Zenithal Equidistant Projection.
 - (ii) Polar Zenithal Equal Area Projection
 - (iii) Polar Zenithal Gnomonic Projection
 - (iv) Polar Zenithal Stereographic Projection.
 - (v) Polar Zenithal Orthographic Projection
5. Characteristics, applications and drawings of (i) Sinosoidal and (2)
 - (ii) Mollweide Projections.
6. Plane Table Survey. (2)

Suggested Readings:-

1. Goyal K.K.1981.. Practical Geography, Manthan Publication, Rohtak.
2. Gregory S. 1963. Statistical Methods and the Geography, Longman, London.
3. Khan, A.A. 1996. Text Book of Practical Geography, Concept, New Delhi,. Publication, New Delhi,.



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Department of Geography

Economic Geography (paper code - 301)

B.A 3rd Year (Sem. 5th)

Unit-I

1. Nature, scope and relationship of economic geography with economics and other branches of social sciences.
2. Classification of economic activities and their impact on environment.

Unit-II

3. World natural resources: Types, bases and classification.
4. Conservation and utilization of natural resources.

Unit-III

5. Spatial distribution of food (rice and wheat), commercial (cotton and sugarcane) and plantation crops (tea, rubber and coffee).
6. Classification of mineral resources (ferrous and non-ferrous), distribution and production of coal, iron ore, petroleum and natural gas.

Unit-IV

7. Classification of industries, world distribution and production of iron and steel and textile industry, major industrial complexes of the world.
8. Transport, communication and trade: geographical factors in their development, major modes of water, land and air transport, recent trends in international trade



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Department of Geography

Distribution of Maps & Diagrams (Practical) (paper code - 302)

B.A 3rd Year (Sem. 5th)

Distribution of Marks

Exercises = 15

Record File = 05

Viva-voce = 05

Note: There will be four questions in all and candidate has to attempt three exercises.

1. Principal of map design and layout
2. Symbolization: point, line and area symbol
3. Lettering and toponomy
4. Mechanics of map construction
5. Distribution maps
 - (i) Qualitative distribution maps
 - Choroschematic maps- 1 Exercise
 - Chorochromatic maps- 2 Exercise
 - (ii) Quantitative distribution Maps
 - Isopleth maps-3 Exercises
 - Choropleth maps-3 Exercises
 - Dot maps-3 Exercises
 - Diagrammatic maps- 3 Exercises.
6. Prismatic Compass Survey – 2 Exercises.

Suggested readings:

1. Mishra RP and Ramesh A. 1999. Fundamentals of Cartography, Concept Publishing Company, New Delhi.
2. Monkhouse FJ and Wilkinson HR. 1972. Maps and Diagrams, Methuen Press, London
3. Singh Gopal. 2004. Map Work and Practical Geography, Vikas Publication House, New Delhi.
4. Singh RL. 1979. Elements of Practical Geography, Kalyani Publishers, New Delhi



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Department of Geography

Introduction To Remote Sensing, GIS, Quantitative Methods (paper code - 303)

B.A 3rd Year (Sem. 6th)

Unit-I

1. Introduction to Aerial Photographs: their advantages and types.
2. Elements of aerial Photo interpretation.

Unit-II

3. Introduction to Remote Sensing; Electromagnetic spectrum, stages in remote sensing, type of satellites.
4. Types of Imageries and their application in various fields such as agriculture, environment and resource mapping.

Unit-III

5. Introduction to Geographical Information System: Definition, purpose, advantages and software and hardware requirements.
6. Application of GIS in various fields of geography.

Unit-IV

7. Measure of Central Tendency: Mean, Median and Mode.
8. Measure of Dispersion: Range, Quartile deviation and Mean deviation, Standard deviation, Coefficient of variation.



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Department of Geography

Introduction to Remote Sensing & Field Survey Report (Practical) (paper code - 304)

B.A 3rd Year (Sem. 6th)

Marks Breakup

Exercise = 09

Record book = 03

Viva-voce = 03

Note: *There will be four questions in all and candidate has to attempt three exercises.*

1. Demarcation of Principal Point, Conjugate Principal point and Flight line on Aerial Photographs – 1 Exercise
2. Determination of Scale of Aerial Photographs – 1 Exercise.
3. Interpretation of Single Vertical Photographs – 1 Exercise.
4. Use of Stereoscope and Identification of Features – 1 Exercise.
5. Identification of Features on IRSID, LISS III imagery (Mark copy of FCC) -1 Exercise.

II Socio-economic Survey and Report Writing -10 marks.

Marks Breakup

Field Survey Report = 06 marks

Viva-voce = 04 marks

Suggested Readings:-

1. John R. Jensen, Remote Sensing of the Environment; An Earth Resource Perspective, Pearson Education, (India Edition) New Delhi, 2009.
2. Lillesand and R.W.Kiefer, Remote Sensing and Image Interpretation, John Wiley and Sons, 1994.



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