

SYLLABUS FOR SUBSIDIARY GEOGRAPHY (SGR)

PAPER 1

PHYSICAL GEOGRAPHY

Total Marks – 100 marks

UNIT 1 : GEOTECTONICS

20 marks

- 1.1 Structure of the Earth's Interior.
- 1.2 Rocks- Origin, Classification and Characteristics.
- 1.3 Broad outlines of Plate Tectonics and related processes and landforms –
Earth Movements : Fold and Faults; Mountain Building; Earthquake and Volcano.

UNIT 2 : GEOMORPHOLOGY

20 marks

- 2.1 Weathering and Mass wasting and their resulting landforms.
- 2.2 Geomorphic Processes and resultant landforms – fluvial, aeolian, glacial and marine.
- 2.3 Cycle of Erosion- Davis and Penck; Rejuvenation.

UNIT 3 : OCEANOGRAPHY

20 marks

- 3.1 Topography of the Oceans- Definition and Characteristics of Continental Shelf, Continental Slope, Deep Sea Plain and Oceanic Deeps.
- 3.2 Salinity and Temperature of Sea Water.
- 3.3 Marine Resources.

UNIT 4 : CLIMATOLOGY

20 marks

- 4.1 Insolation-Heat Budget, Horizontal and Vertical distribution of temperature.
- 4.2 Global Pressure Belts and General Circulation
- 4.3 Monsoon with special reference to Jet Stream and Tropical Cyclone.

UNIT 5 : SOIL AND BIOGEOGRAPHY

20 marks

- 5.1 Factors of soil formation and profile development.
- 5.2 Properties of Soil-Physical and Chemical, Concept of Zonal, Azonal and Intrazonal soils.
- 5.3 Definition of Ecosystem and Biomes, Energy Flow, Food Chain and Food Web; Trophic Structure.

Reference :

1. Selby , M. J. 1991 : Earth's Changing Surface.
2. Ollier, C. D. 1981 : Tectonics and Landforms.
3. Singh, S : Geomorphology
4. Chorley, R. J. 1969 : Water, Earth and Man.
5. Barry, R. G. and Chorley, R. J. 1985 : Atmosphere, weather and climate.
6. Lab, D. S. : Climatology.
7. Joffe, J. S. 1965 : ABC of Soil.
8. De, N. K. and Sarkar, M. K. 1994 : Mritika Bhuniya.
9. Odum, F. P. 1971 : Fundamentals of Ecology.

PAPER II

HUMAN AND REGIONAL GEOGRAPHY

Total Marks – 100 marks

UNIT 1 : ECONOMIC GEOGRAPHY

30 marks

- 1.1 Concept and Classification of Resource
- 1.2 Resource Utilization as Primary activity - forest, domesticated animal, fish, minerals, power generation, agriculture.
- 1.3 Resource Utilization as Secondary activity - Industry- Cotton Textile Industry, Iron and Steel Industry and Petrochemical Industry.

UNIT 2 : POPULATION GEOGRAPHY

30 marks

- 2.1 Growth and distribution of world population.
- 2.2 Migration- Types, causes and consequences of migration.
- 2.3 Population Composition - age - sex structure and occupational; Social issues - literacy, gender and poverty.

UNIT 3 : REGIONAL GEOGRAPHY OF INDIA

40 marks

- 3.1 Physical - Relief; Drainage; Climate; Vegetation and Soil with special reference to conservation.
- 3.2 Economic and Social - Power resources and Mineral resources; Irrigation and Agriculture; Major Industries; Population -growth and distribution.
- 3.3 Basis of regionalisation- Physical: Ganga Valley; Economic: Chotanagpur Plateau

Reference :

1. Wheeler, J.O. 1986 : Economic Geography
2. Chatterjee A. 2001 : Arthanaitik Bhugol
3. Sen, A. 1990 : Jibonjatra 'O' Arthoniti
4. Hudson, F.S. (1976) : Geography of Settlement
5. Zacharia : Elements of Demography.
6. Singh, R.L. : Regional Geography of India.

PAPER III

PRACTICAL GEOGRAPHY

Total Marks – 100 marks

UNIT 1 : CARTOGRAPHIC TECHNIQUES

30 marks

- 1.1 Scales: Concept of scales; drawing of linear scales. (5 marks)
- 1.2 Map Projection: Basic Concepts and Subject - Cylindrical Equal Area Projection, Simple Conical Projection with one standard parallel, Polar Zenithal Stereographic Projection. (15 marks)
- 1.3 Isopleth, Choropleth, Chorochromatic Map and Pie- Graph. (10 marks)

UNIT 2 : STATISTICAL TECHNIQUES

20 marks

- 2.1 Nature and Classification of data
- 2.2 Frequency distribution: Histogram, Polygon, Ogive.
- 2.3 Measures of Central Tendency: Mean , Median , Mode.

UNIT 3 : TOPOGRAPHICAL MAPS

20 marks

- 3.1 Interpretation of topographical map: R. F. -1; 50,000, Plateau- 1 map; Plain -1 map with suitable sketches profiles, broad physiographic division and transect charts.

UNIT 4 : FIELD REPORT

20 marks

- 4.1 Field Report- Collection of Primary and Secondary data on the basis of a questionnaire schedule which must be submitted along with the report. Maps, diagrams and photographs not to exceed 15 pages and text not to exceed 1500 words.

5. Laboratory Note Book (LNB) + Viva-Voce

5+5=10 marks

Reference :

1. Sarkar, A. : Practical Geography : A Systemic Analysis.
2. Singh, R.L. : Practical Geography
3. Mahmood, A. (1993) : Statistical Methods in Geographical Studies
4. Das, N.G. : Statistics.