

Syllabus For Assistant Professor Stage-I (Geography)
Under Higher & Technical Education Department

GENERAL ENGLISH

(Full Marks : 200)

- (a) Essay Writing (Conventional)..... 30 Marks
(b) Précis Writing (Conventional) 20 Marks
(c) Comprehension (Conventional) 20 Marks
(d) Grammar (Objective Type/MCQ) 130 Marks

Technical Paper – I
(MCQ)

Physical Geography and Techniques in Geography (200 Marks)

Geomorphology: Interior of the Earth; Endogenetic and Exogenetic Forces; Plate tectonics; Earthquake and volcanoes; Geomorphic process - Weathering and Mass wasting; Geographical cycles - Davis and Penck; Landforms - Fluvial, Glacial, Aeolian and Coastal landforms, Karst topography (70)

Climatology & Oceanography: Composition and structure of the atmosphere; Heat balance; Precipitation - forms and types; Tropical cyclones; Monsoon; Climatic classifications - Koppen and Thornthwaite; Hydrological cycle; Surface configuration of the ocean floor; Tides and oceanic currents; Distribution of ocean salinity (70)

Remote Sensing & Geographical Information System: Types of aerial photography; Remote sensing - principles and components; types of platforms and sensors; Image classification and Geo-referencing; GIS - concept and components; types of data (Spatial and Non-spatial); data models (Raster and Vector) (20)

Cartographic Techniques: Types of scales; Contours and profiles; Maps – Classification and types; Map projections – classification, properties and uses; Thematic mapping techniques – Uses of Dot, Choropleth, Flow diagram, Proportionate circles and Sphere (20)

Statistical Geography: Scales of measurement; Frequency distribution; Measures of central tendency; Measures of dispersion (Range, Standard deviation and Coefficient of Variation); Sampling: Purposive, random, systematic and stratified (20)

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Technical Paper - II
(MCQ)

Human Geography (200 Marks)

Geographical Thought: Environmental determinism and Possibilism; Areal differentiation/Regional geography; Quantitative revolution and Spatial science school, Behavioural geography; Humanistic geography; Radical geography; Post-modern geography. (40)

Economic and Cultural Geography: Concept and classification of economic activity; Characteristics of developed and developing countries; Location theories – Weber’s and Christaller’s; Cultural regions; Global distribution of race; religion and language; Human adaptation to the environment with special references to the Eskimos, Bushman, Masai and Gujjars; Economic and cultural globalization (40)

Population Geography: Determinants and patterns of population distribution and growth; Theories of population – Malthusian Theory, Marxian and Demographic Transition Theory; Fertility, Mortality and Migration – measures, determinants and implications. (30)

Settlement Geography: Types and Patterns of rural settlements; Functional classification of urban settlements; Trends and Patterns of urbanisation in developed and developing countries; Laws and Theories - Rank-size rule, Primate city, Central place theory, Urban land-use theories. (30)

Agricultural Geography: Determinants of agriculture - physical, socio-economic, technological and institutional; Whittlesey’s classification of agricultural system; Theories of agricultural land use - Von Thunen and Sinclair’s Model (30)

Political Geography: Concept of nation; Elements of state and emergence of nation-state; Theories- Heartland and Rimland; Boundaries and frontiers; Electoral geography – geography of voting, geographic influences on voting pattern, gerrymandering (30)

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Technical Paper – III
(MCQ)

Geography of India (200 Marks)

Physical: Physiographic division, soil, vegetation and climate - characteristics and classification (60)

Economic: Mineral and power resources - distribution of iron ore, coal, petroleum; Agriculture- production and distribution of rice, wheat and tea; Agro-climatic regions of India; Green Revolution in India-Its socio-economic and ecological implications; Economic region (Sengupta); Special Economic Zones (SEZs) (30)

Population and Settlements: Distribution and growth of population; Rural and urban composition; Urbanization-pattern and growth; Migration; Census definition of urban and Classification of towns; Functional classification of Indian cities (30)

Social: Distribution of population by race, caste, religion, language, tribes and their correlates; Pattern of development-interstate comparison (30)

Contemporary Issues: Sex ratio; HIV/AIDS; Urban issues - housing, slums, and civic amenities; Regional inequality; Geography of resource conflicts - interstate water disputes, forest rights (30)

Regional Geography of Mizoram: Physical - physiography, drainage and climate; Population - distribution and growth; social and economic characteristics (20)
