

GEOGRAPHY

PAPER I - PRINCIPLES OF GEOGRAPHY

Section A - Physical Geography:

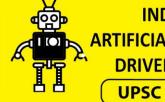
1. Geomorphology:

- Factors controlling landform development; endogenetic and exogenetic forces;
- Origin and evolution of the earth's crusts;
- Fundamentals of geomagnetism;
- Physical conditions of the earth's interior; Geosynclines;
- Continental drift; Isostasy; Plate tectonics; Recent views on mountain building; Volcanicity; Earthquakes and Tsunamis;
- Concepts of geomorphic cycles and Land scape development;
- Denudation chronology; Channel morphology; Erosion surfaces;
 Slope development;
- Applied Geomorphology; Geomorphology, economic geology and environment.

2. Climatology:

- Temperature and pressure belts of the world; Heat budget of the earth; Atmospheric circulation;
- Atmospheric stability and instability. Planetary and local winds;
 Monsoons and jet streams; Air masses and fronto; Temperate and tropical cyclones;
- Types and distribution of precipitation; Weather and Climate;
 Koppen's Thornthwaite's and Trewar Tha's classification of world climate; Hydrological cycle;
- Global climatic change, and role and response of man in climatic changes Applied climatology and Urban climate.

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3. Oceanography:

- Bottom topography of the Atlantic, Indian and Pacific Oceans;
- Temperature and salinity of the oceans; Heat and salt budgets,
 Ocean deposits;
- Waves, currents and tides;
- Marine resources; biotic, mineral and energy resources;
- Coral reefs coral bleaching; Sea-level changes; Law of the sea and marine pollution.

4. Biogeography:

- Genesis of soils; Classification and distribution of soils; Soil profile;
- Soil erosion, Degradation and conservation;
- Factors influencing world distribution of plants and animals;
- Problems of deforestation and conservation measures; Social forestry, agro-forestry; Wild life; Major gene pool centres.

5. Environmental Geography:

- Principle ecology; Human ecological adaptations; Influence of man on ecology and environment;
- Global and regional ecological changes and imbalances; Ecosystem their management and conservation;
- Environmental degradation, management and conservation;
 Biodiversity and sustainable development;
- Environmental policy; Environmental hazards and remedial measures; Environmental education and legislation.

Section B - Human Geography:

1. Perspectives in Human Geography:

- Areal differentiation; Regional synthesis; Dichotomy and dualism;
- Environmentalism; Quantitative revolution and locational analysis;
- Radical, behavioural, human and welfare approaches;
- Languages, religions and secularisation; Cultural regions of the world;
- Human development index.







2. Economic Geography:

- World economic development: measurement and problems;
- World resources and their distribution; Energy crisis; the limits to growth;
- World agriculture: typology of agricultural regions; Agricultural inputs and productivity; Food and nutritions problems; Food security; famine: causes, effects and remedies;
- World industries: location patterns and problems; Patterns of world trade.

3. Population and Settlement Geography:

- Growth and distribution of world population; Demographic attributes; Causes and consequences of migration; Concepts of over-under-and optimum population;
- Population theories, world population problems and policies, Social well-being and quality of life; Population as social capital.
- Types and patterns of rural settlements; Environmental issues in rural settlements;
- Hierarchy of urban settlements; Urban morphology; Concept of primate city and rank-size rule; Functional classification of towns; Sphere of urban influence; Rural-urban fringe; Satellite towns; Problems and remedies of urbanization; Sustainable development of cities.

4. Regional Planning:

- Concept of a region; Types of regions and methods of regionalisation;
- Growth centres and growth poles; Regional imbalances;
- Regional development strategies;
- **Environmental issues in regional planning; Planning for sustainable** development.



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- 5. Models, Theories and Laws in Human Geography:
 - System analysis in Human geography;
 - Malthusian, Marxian and demographic transition models;
 - Central Place theories of Christaller and Losch; Perroux and Boudeville;
 - Von Thunen's model of agricultural location;
 - Weber's model of industrial location;
 - Ostov's model of stages of growth.
 - Heart-land and Rimland theories; Laws of international boundaries and frontiers.

PAPER II GEOGRAPHY OF INDIA

1. Physical Setting:

- Space relationship of India with neighbouring countries;
- Structure and relief; Drainage system and watersheds; Physiographic regions;
- Mechanism of Indian monsoons and rainfall patterns; Tropical cyclones and western disturbances;
- Floods and droughts; Climatic regions; Natural vegetation, Soil types and their distributions.
- 2. **Resources**: Land, surface and ground water, energy, minerals, biotic and marine resources, Forest and wild life resources and their conservation; Energy crisis.

3. Agriculture:

- Infrastructure: irrigation, seeds, fertilizers, power;
- Institutional factors; land holdings, land tenure and land reforms;
- Cropping pattern, agricultural productivity, agricultural intensity, crop combination, land capability; Agro and social-forestry;
- Green revolution and its socio-economic and ecological implications;
 Significance of dry farming;
- Livestock resources and white revolution; Aqua-culture; Sericulture, Agriculture and poultry; Agricultural regionalisation; Agro-climatic zones; Agro-ecological regions.







4. Industry:

- Evolution of industries; Locational factors of cotton, jute, textile, iron and steel, aluminium, fertiliser, paper, chemical and pharmaceutical, automobile, cottage and ago-based industries;
- Industrial houses and complexes including public sector undertakings;
- Industrial regionalisation;
- New industrial policy; Multinationals and liberalisation; Special Economic Zones;
- Tourism including ecotourism.

5. Transport, Communication and Trade:

- Road, railway, waterway, airway and pipeline networks and their complementary roles in regional development;
- Growing importance of ports on national and foreign trade; Trade balance;
- Trade Policy; Export processing zones;
- Developments in communication and information technology and their impacts on economy and society; Indian space programme.

6. Cultural Setting:

- Historical Perspective of Indian Society; Racial linguistic and ethnic diversities; religious minorities;
- Major tribes, tribal areas and their problems; Cultural regions;
- Growth, distribution and density of population;
- Demographic attributes: sex-ratio, age structure, literacy rate, workforce, dependency ratio, longevity; migration (inter-regional, interaregional and international) and associated problems;
- o Population problems and policies; Health indicators.

7. Settlements:

- Types, patterns and morphology of rural settlements;
- Urban developments; Morphology of Indian cities; Functional classification of Indian cities; Conurbations and metropolitan regions; Urban sprawl; Slums and associated problems;
- Town planning; Problems of urbanisation and remedies.







8. Regional Development and Planning:

- Experience of regional planning in India; Five Year Plans; Integrated rural development programmes; Panchayati Raj and decentralised planning; Command area development;
- Watershed management; Planning for backward area, desert, drought-prone, hill tribal area development;
- Multi-level planning; Regional planning and development of island territories.

9. **Political Aspects:**

- Geographical basis of Indian federalism; State reorganisation;
 Emergence of new states; Regional consciousness and inter-state issues;
- International boundary of India and related issues; Cross-border terrorism; India's role in world affairs; Geopolitics of South Asia and Indian Ocean realm.

10. Contemporary Issues:

- Ecological issues:
 - Environmental hazards: landslides, earthquakes, Tsunamis, floods and droughts, epidemics;
 - Issues related to environmental pollution;
 - Changes in patterns of land use;
 - Principles of environmental impact assessment and environmental management;
- Population explosion and food security;
- Environmental degradation; Deforestation, desertification and soil erosion;
- Problems of agrarian and industrial unrest; Regional disparities in economic development;
- Concept of sustainable growth and development; Environmental awareness;
- Linkage of rivers;
- Globalisation and Indian economy.

NOTE: Candidates will be required to answer one compulsory map question pertinent to subjects covered by this paper.



