

**Topic-1: Geography as a discipline-**

Geographical ideas in ancient, medieval & modern periods: the contributions of Varenus, Kant, Humboldt and Ritter. Influence of Richthofen and Darwin. Vidal-de-la Blache, F. Ratzel and Indian geographic.

**Contemporary geography: Post Second World War, Environmentalism, Areal Differentiation, spatial organization, Behavioural and perceptual Geography. Positivism in Geography. Humanistic Geography. Marxist Geography and critical social theory. Development in Indian Geography.**

**Topic-2 Origin and Evolution of the Earth-**

Introduction to the solar system,

Motions of Earth: Rotation, Revolution, Occurrence of Day and Night; change of seasons; Latitudes and Longitudes; Finding time.

Earth's Interior: Origin of continents and ocean basins Wegener's Continental drift theory, Theory of Plate Tectonics Earthquakes and Volcanoes, Folding and faulting

Origin of the Earth: Nebular hypothesis (old Theory) and Big-Bang Theory. Evolution of continents, atmosphere and oceans.

**Topic-3 Interior of the Earth and Distribution of oceans and continents-**

Constitution of Earth's interior (based on Seismic Evidences), origin of the continents and ocean basins. Wegner's theory of Continental drift and Plate Tectonics. Plate movements and interactions-Volcanism and seismicity.

**Topic-4 Landforms-**

Mineral and rocks- classification of rocks, rock cycle. Important minerals geomorphic process of denudation Endogenic and Exogenic processes. Mass Wasting, Landslide, Work of River, Glacier Wind, Sea Waves etc, processes of soil formation.

**Topic-5 Climate:**

Atmosphere: Composition and structure. Insolation and temperature, Atmospheric pressure and winds, Atmospheric moisture, cyclones, classification of climate (Koeppen and Thornthwaite Schemes classification). Global climatic changes: Causes and effects.

**Topic-6 Water (Ocean)**

Geomorphology of the ocean floor, submarine relief features of Atlantic, Pacific and Indian Ocean.  
- Salinity, temperature.

Movement of ocean water: Currents, tides and waves. Marine deposits and coral reefs.

**Topic-7 Life on the Earth**

Approaches in environmental Geography, landscape, ecosystem and perception approaches, Man and the Biosphere: Interactive and dynamic relationship. Human impact on biogeochemical cycles.

### Topic-8 India:

Geographical basis of Indian State-territory; location, extent, shape and size.

### Topic-9

Physiography and Drainage

Structure, Physiographic divisions, Drainage system and its evolution.

### Topic-10 Climate, Vegetation and Soil-

Climate: factors controlling climate of India

Origin and mechanism of Indian monsoon; Seasons of India, Classification of climate of India(Koeppen's, Thornthwaite).

Soils: Type and distribution (I.C.A.R.), Soil problems, conservation of soil

Vegetation- Types & Distribution; conservation

Wild Life- its conservation.

### Topic-11 Natural Hazards and disasters-

Causes, cases/events Consequences and management in India Environmental Hazards: Floods, droughts, cyclones, earthquakes and landslides; human adjustment to hazards; hazards perception and mitigation; environmental institutions and legislation in India.

### Topic-12 People (World and India)

Trends and patterns of population growth: determinants and patterns of population distribution and density of Population, demographic transition; Human migration, Patterns of human development.

### Topic-13 Human Activities: (World and India)

Primary: - Hunting, gathering, Herding (Nomadic & Commercial) fishing, mining and agriculture; Agricultural practices; some major crops.

Secondary: - Industries: Classification, Theories of localization, major Industries, recent trends in industries, world comparisons.

Tertiary:-(Services)

Quaternary-Quinary activities

Planning in India: target area planning, idea of sustainable development

### Topic-14 Transport, Communication and Trade(World and India)

Transport and communication Roads, railways, waterways and airways; oil and gas pipelines, national electric grids. Communication networking-radio, television, satellite and Internet.

International Trade-Basis and components, trade balance, major trading organizations, changing pattern of India's foreign trade, sea-routes, inland water-ways, sea ports and their hinter-land.



#### Topic-15 Human settlements (World and India)

Temporary and Permanent settlements, rural settlements: origin, types and patterns; Urban settlements: Origin and growth of towns; functional classification of towns. Problems of urbanization in the world; urbanization in India; Urban slums and squatters. Morphology of cities; distribution of Mega-cities, problems of human settlements in Developing countries.

#### Topic-16 Geographical perspective on selected issues and problems

Environmental pollution-Land, Water, Air, Noise, Global Warming, Poverty, Food Security.

#### Topic-17 General Cartography (Practical)

Elements and classification of maps, scales, map-projections, finding directions, latitudes, longitudes and calculation of local & standard time, Identification & Analysis of relief forms: Topographical Maps and interpretation. Weather-instruments and interpretation of weather maps. Digital mapping, Remote sensing, Visual interpretation. Processing of Data, Thematic mapping, representing statistical data by various diagrams.

Spatial Information technology: GIS, GPS, Computers-Software and Hardware components, Data format-Raster and Vector, editing and topology etc. Spatial Analysis-Overlay, Buffer and Proximity analysis.

+ Basic Statistics.

  
Secretary  
Haryana Public Service Commission  
Panchkula

Adda247

i. Educational Psychology

- Concept, scope and functions of educational psychology.
- Physical, cognitive, social, emotional and moral developmental characteristics of adolescent learner and its implication for teaching-learning.
- Behavioural, cognitive and constructivist principles of learning and its implication for senior secondary students.
- Concept of mental health & adjustment and adjustment mechanism.
- Emotional intelligence and its implication in teaching learning.

ii. Pedagogy and Teaching Learning Material (Instructional Strategies for Adolescent Learner)

- Communication skills and its use.
- Teaching models- advance organizer, concept attainment, information processing, inquiry training.
- Preparation and use of teaching-learning material during teaching.
- Cooperative learning.

iii. General

- General Awareness including Questions related to Haryana.
- General Mental Ability including Basic numeracy & data interpretation
- Logical Reasoning & Analytical Ability
- Decision making & problem solving

  
Secretary  
Haryana Public Service Commission  
Panchkula