

# Geography

## (Syllabus for Promotions and Recruitments)

Sr.No.	Topics	Sub Topics
1.	Introduction to Geography	<ul style="list-style-type: none"> <li>• Meaning and Importance of Geography</li> <li>• Nature and Scope of Geography</li> </ul>
2.	Theories of the origin of the Earth	<ul style="list-style-type: none"> <li>• Laplace</li> <li>• Big Bang Theory</li> </ul>
3.	Realms of the Earth	Brief introduction to : <ul style="list-style-type: none"> <li>• Atmosphere</li> <li>• Lithosphere</li> <li>• Hydrosphere</li> </ul>
4.	The constitution of the Earth's interior	<ul style="list-style-type: none"> <li>• Crust</li> <li>• Mantle</li> <li>• Core</li> </ul>
5.	The Continental Drift Theory	<ul style="list-style-type: none"> <li>• With special reference to Wegner's theory</li> <li>• Plate Tectonics</li> </ul>
6.	Forces of Compression and Tension	<ul style="list-style-type: none"> <li>• Landforms resulting from Compression and Tension</li> </ul>
7.	Classification of Rocks	Origin, Classification and Characteristics of: <ul style="list-style-type: none"> <li>• Igneous Rocks</li> <li>• Sedimentary Rocks</li> <li>• Metamorphic Rocks</li> </ul>
8.	Earthquakes and volcanoes	<ul style="list-style-type: none"> <li>• Causes , types and distribution</li> </ul>
9.	Major landforms	<ul style="list-style-type: none"> <li>• Mountains</li> <li>• Plateaus</li> <li>• Plains</li> </ul>
10.	Geomorphic Agents and Processes	<ul style="list-style-type: none"> <li>• Weathering</li> <li>• Erosion</li> </ul>
11.	Geomorphic landscapes	Landforms formed by: <ul style="list-style-type: none"> <li>• Fluvial</li> <li>• Glacial</li> <li>• Aeolian</li> </ul>
Sr.No.	Topics	Sub Topics
1.	Definition of Climatology	<ul style="list-style-type: none"> <li>• Difference between Climate and Weather</li> <li>• Elements and Controls of Climate and Weather</li> </ul>

2.	Atmosphere	<ul style="list-style-type: none"> <li>• Physical Structure of the Atmosphere</li> <li>• Composition of the Atmosphere</li> </ul>
3.	Insolation	<ul style="list-style-type: none"> <li>• Factors controlling its horizontal distribution</li> </ul>
4.	Temperature	<ul style="list-style-type: none"> <li>• Horizontal and vertical distribution</li> </ul>
5.	Atmospheric Pressure and Wind System	<ul style="list-style-type: none"> <li>• World Pressure belts</li> <li>• Classification of winds (Planetary, periodic and local winds.)</li> </ul>
6.	Moisture and Precipitation	<ul style="list-style-type: none"> <li>• Forms of condensation (clouds, dew, frost and snow)</li> <li>• Types of rainfall</li> <li>• Distribution of rainfall in world</li> </ul>
7.	Atmospheric pollution	<ul style="list-style-type: none"> <li>• Causes, effects and controls of air pollution</li> </ul>
8.	Oceanography	<ul style="list-style-type: none"> <li>• Definition</li> <li>• Topography of the ocean basin (continental shelf, continental slope, deep sea plains and oceanic deep features).</li> </ul>
9.	Temperature and salinity in oceanic water	<ul style="list-style-type: none"> <li>• Factors controlling world patterns of distribution of temperature and salinity.</li> </ul>
10.	Movements of oceanic waters	<ul style="list-style-type: none"> <li>• Waves</li> <li>• Currents of Atlantic and Pacific ocean</li> </ul>
11.	Oceans as storehouse of resources for the future	<ul style="list-style-type: none"> <li>• Benefits of ocean resources to human beings</li> </ul>

<b>Section – A1.</b>	Introduction	<ul style="list-style-type: none"> <li>• Geographical and Relative Location</li> <li>• Evolution of the state</li> <li>• Administrative divisions</li> </ul>
2.	Relief	<ul style="list-style-type: none"> <li>• The Shivaliks</li> <li>• The Kandi</li> <li>• The Plains</li> <li>• The Bet area</li> <li>• The Sand Dune studded South</li> </ul>
3.	Drainage	<ul style="list-style-type: none"> <li>• Main Rivers of Punjab</li> </ul>
4.	Climate	<ul style="list-style-type: none"> <li>• Summer, Winter and Monsoon season</li> </ul>

5.	Natural Vegetation	<ul style="list-style-type: none"> <li>• Types, distribution and conservation</li> </ul>
6.	Power Resources	<ul style="list-style-type: none"> <li>• Distribution and production of Hydropower and Thermal power</li> </ul>
7.	Population	<ul style="list-style-type: none"> <li>• Distribution</li> <li>• Density</li> <li>• Growth</li> <li>• Urbanization</li> <li>• Literacy</li> <li>• Sex Ratio</li> </ul>
8.	Agriculture	<ul style="list-style-type: none"> <li>• Salient features of Punjab's agriculture</li> <li>• Major crops (Rice, Wheat, Cotton and Sugarcane)</li> <li>• Problems of Punjab's agriculture</li> </ul>
9.	Industry	<ul style="list-style-type: none"> <li>• Locational factors, distribution and problems faced by Cotton Textile Industry, Hosiery Industry and Sugar Industry</li> </ul>
10.	Transport	<ul style="list-style-type: none"> <li>• Road</li> <li>• Rail</li> <li>• Airways</li> </ul>
11.	Regional Geography	<ul style="list-style-type: none"> <li>• Main characteristics of Majha, Doaba and Malwa.</li> </ul>
Sr. No.	Topics	Subtopics
1.	Geography of Resources	<ul style="list-style-type: none"> <li>• Definition</li> <li>• Nature, Scope and Significance</li> <li>• Classification of Resources</li> </ul>
2.	Mineral and Energy Resources	<ul style="list-style-type: none"> <li>• Distribution, economic and environmental significance, international trade and conservation of Iron Ore, Copper, Coal and Mineral Oil</li> </ul>
3.	Forest Resources	<ul style="list-style-type: none"> <li>• Types, distribution, environment and economic significance and conservation</li> </ul>
4.	Soil Resources	<ul style="list-style-type: none"> <li>• Types, distribution, significance, soil degradation and conservation</li> </ul>
5.	Water Resources	<ul style="list-style-type: none"> <li>• Hydro Power</li> <li>• Utility, significance and sustainability</li> <li>• Water crisis and Man</li> </ul>
7.	Human Resources	<ul style="list-style-type: none"> <li>• Quantitative and qualitative aspects of population (distribution, density, growth, literacy and urbanization)</li> </ul>
8.	Population -Resources Relationship	<ul style="list-style-type: none"> <li>• Population – Resource regions of the World</li> </ul>

9.	Introduction to Environmental Geography	<ul style="list-style-type: none"> <li>• Definition and Significance</li> <li>• Man-Environment Relationship</li> </ul>
10.	Emerging Environmental Issues	<ul style="list-style-type: none"> <li>• Air Pollution</li> <li>• Water Pollution</li> <li>• Population Explosion</li> <li>• Depleting Biodiversity</li> </ul>
Sr.No.	Topics	Sub-topics
1.	<b>Anglo America</b>	<ul style="list-style-type: none"> <li>• <b>Introduction</b></li> <li>• <b>Relief and Drainage system</b></li> <li>• <b>Climate</b></li> <li>• <b>Agriculture (with special reference to Wheat, Maize &amp; Cotton)</b></li> <li>• <b>Minerals (Iron ore, Coal and Hydro-electricity)</b></li> <li>• <b>Population (Distribution , Growth and Urbanization)</b></li> <li>• <b>Industry (Iron and Steel Industry and Automobile Industry)</b></li> </ul>
2.	<b>Latin America</b>	<ul style="list-style-type: none"> <li>• <b>Introduction</b></li> <li>• <b>Relief</b></li> <li>• <b>Drainage system</b></li> <li>• <b>Natural Vegetation</b></li> <li>• <b>Agriculture ( with special reference to Coffee and Sugarcane )</b></li> <li>• <b>Minerals ( Iron ore, Copper and Aluminum )</b></li> </ul>
3.	<b>Europe</b>	<ul style="list-style-type: none"> <li>• <b>Introduction</b></li> <li>• <b>Relief</b></li> <li>• <b>Agriculture ( Wheat and Dairy )</b></li> <li>• <b>Fisheries</b></li> <li>• <b>Power resources ( Coal and Hydro-electricity )</b></li> <li>• <b>Industries ( Cotton Textile, Woolen Textile and Ship building industry )</b></li> </ul>
4.	<b>Australia</b>	<ul style="list-style-type: none"> <li>• <b>Introduction</b></li> <li>• <b>Relief</b></li> <li>• <b>Climate</b></li> <li>• <b>Main Minerals</b></li> <li>• <b>Agriculture</b></li> <li>• <b>Population (Distribution and Density)</b></li> </ul>
5.	<b>Map Filling Exercise</b>	<ul style="list-style-type: none"> <li>• <b>Map covering the entire syllabus</b></li> </ul>
Sr. No.	Topics	Subtitles
1.	<b>Introduction</b>	<ul style="list-style-type: none"> <li>• <b>India in the context of South Asia, Asia and the World.</b></li> </ul>
2.	<b>Relief</b>	<ul style="list-style-type: none"> <li>• <b>The Northern Mountains</b></li> <li>• <b>The Great Plains</b></li> </ul>

		<ul style="list-style-type: none"> <li>• The Deccan Plateau</li> <li>• The Coastal Plains</li> <li>• The Islands</li> </ul>
3.	Drainage	<ul style="list-style-type: none"> <li>• The Himalayan Rivers</li> <li>• The Peninsular Rivers</li> <li>• Inland Drainage System</li> </ul>
4.	Climate	<ul style="list-style-type: none"> <li>• Factors affecting the Climate of India</li> <li>• Main Seasons of India</li> </ul>
5.	Natural Vegetation	<ul style="list-style-type: none"> <li>• Types and distribution</li> <li>• Importance of forests for India</li> </ul>
6.	Soils and Agriculture	<ul style="list-style-type: none"> <li>• Major types of Soils</li> <li>• Salient features of Indian agriculture</li> <li>• Major Crops ( Rice, Wheat, Tea, Jute )</li> <li>• Green Revolution</li> <li>• Problems of Indian Agriculture</li> </ul>
7.	Minerals and Power Resources	<ul style="list-style-type: none"> <li>• Distribution and production of Iron ore, Mica, Coal and Mineral Oil.</li> </ul>
8.	Population	<ul style="list-style-type: none"> <li>• Distribution</li> <li>• Density</li> <li>• Growth</li> <li>• Sex Ratio</li> <li>• Literacy</li> </ul>
9.	Major Industries	<ul style="list-style-type: none"> <li>• Locational factors, distribution and problems faced by Iron and Steel industry, Cotton textile industry and Sugar industry.</li> </ul>
10.	Transport System	<ul style="list-style-type: none"> <li>• Railways, Roads, Waterways, Ports and Airways</li> </ul>
11.	Map Filling Exercise	<ul style="list-style-type: none"> <li>• Map covering the entire syllabus</li> </ul>

Practical

Sr.No.	Topics	Subtopics
1.	History of Cartography	<ul style="list-style-type: none"> <li>• Definition and brief history</li> <li>• Maps and their types</li> </ul>
2.	Map Scales	<ul style="list-style-type: none"> <li>• Types of scales and methods of construction of graphic scales ( Plain Scale, Comparative scale, Time scale and Diagonal scale )</li> </ul>
1.	Directions	<ul style="list-style-type: none"> <li>• Direction and Plotting of Course</li> <li>• Methods of finding True North with the help of Pole star, a watch and a rod</li> </ul>
2.	Enlargement and Reduction	<ul style="list-style-type: none"> <li>• Graphic methods ( Square and Triangle method )</li> <li>• Instrumental methods ( Pantograph, Xeroxing and Photographic )</li> </ul>

3.	Weather maps	<ul style="list-style-type: none"> <li>• general introduction to the study of weather maps</li> <li>• weather symbols employed in Indian daily weather report</li> <li>• Interpretation of Indian daily weather report</li> </ul>
4.	Local Weather Report	<ul style="list-style-type: none"> <li>• A Brief Weather Report of 10-12 pages.</li> </ul>
Sr. No.	Topics	Sub-topics
1.	Symbolization of Geographical Data	<ul style="list-style-type: none"> <li>• Point symbols ( Dot, Circle and Sphere )</li> <li>• Isopleths and Flow lines</li> <li>• Choropleth: Dasymetric; Simple Choropleth</li> </ul>
2.	Exercises on :  1) Population data  2) Agricultural data and Industrial data  3) Transport data	<ul style="list-style-type: none"> <li>• Distribution, Density, Growth and Literacy</li> <li>• Land utilization, distribution of crops; growth and production of industry</li> <li>• Traffic Flow</li> </ul>

Sr. No.	Topic	Sub Topics
1.	Brief Introduction to Remote Sensing and GIS	<ul style="list-style-type: none"> <li>• Definition and Meaning of Remote Sensing and GIS.</li> </ul>
2.	Field Work (Theory)	<ul style="list-style-type: none"> <li>• Nature, Scope and Significance of Field Studies</li> <li>• Role of field work in geography</li> <li>• Scale of study and field work methodology</li> <li>• Data and it's types</li> <li>• Methods of field study of : a farm , a village and a town</li> </ul>

### Section – B

3.	Project Report based on socio-economic survey ( 15-20 written pages )	<p>The field report will be based on primary and secondary data on problems such as:</p> <ul style="list-style-type: none"> <li>• Local Market Survey</li> <li>• Service area of school/college/hospital</li> <li>• Traffic flow</li> <li>• Socio-economic characteristics of students of village/ mohalla</li> <li>• Land use</li> </ul>
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