

5. भूगोल

Fundamentals of Physical Geography

Unit-I : Geography as a discipline :-

- Nature and Scope
- Science & Spatial attributes
- Branches of Geography
- Importance of physical geography (Nature and scope)

Unit-II : Earth :-

- Origin and Evolution of the Earth.
- Interior of the Earth.
- Wegener's continental drift theory and plate tectonics.
- Geological process Earthquake, volcanoes.

Unit-III : Landforms :-

- Minerals and Rocks
- Types of Rocks and its characteristics.
- Geomorphic process weathering and erosion.
- Landforms and its types.

Unit-IV : Climate :-

- Composition and structure.
- Elements of Weather and Climate.
- Insolation: Angle of incidence of Sun's ray & distribution.
- Heat Budget
- Heating and Cooling of Atmosphere.
- Conduction, Convection, Radiation.
- Problems of Global Warming.
- Green House Effects.
- Pressure belts.
- Winds : Planetary, Seasonal & Local and its effects.
- Air masses and fronts.
- Cyclones : Tropical & Temperate.
- Condensation and Evaporation process.

Unit-V : Hydrosphere (Water) oceans :-

- Hydrological Cycle
- Study of Submarine Relief.
- Distribution of temperature and Salinity.
- Movements of Ocean water waves, tides and currents.

Unit-VI : Biosphere :-

- Ecosystems.
- Role of Man in Ecological Imbalance.
- Human and Environmental effects.

Economic Geography :-

Unit-I : Resource -

- Meaning and Scope

- Concept
- Classification and Conservation

Unit-II : Man and Environment :-

- Major Natural Regions of the world
- Equatorial Region
- Monsoon Region
- Tropical Region
- Temperate grassland
- Human Life.

Unit-III : Main Crops of the World :-

- Grains – Rice, Wheat & Pulses
- Cash Crops – Cotton & Sugarcane
- Plantation Crops – tea
- Milk production
- Geographical conditions, distribution and world-trade of different crop's production.

Unit-IV : Major Industries of the World :-

- Utility and distribution of Iron-ore, Cotton-textile, Factors of Industrialization and its effects on the economy.

Unit-I : Fundamentals of Human Geography :-

- Nature and Scope

Unit-II : People :-

- Population of the world, distribution, density and growth.
- Population change, spatial pattern and structure, determinant of population changes, Age and Sex ratio, rural urban composition.
- Human development, Concept, selected indicators, International comparison.

Unit-III : Human Activities :-

- **Primary activities** : Concept and changing trends, gathering, Pastoral mining, subsistence Agriculture.
- **Secondary activities** : Concept, Manufacturing Agro Processing, House-hold, small scale, large scale.
- **Tertiary activities** : Concept, Trade, Transport and communication and Trade.
- **Quaternary activities** – Concepts knowledge based Industry, Information Technology- USA, Britain, India its contribution.

Unit-IV : Transport, communication & Trade :-

- Land Transport : Road, railways, Air, Water.
- Satellite communication, cyber zone, International Technology – USA, Britain, India its contribution.

Unit-V : Human Settlement :-

- Types, Characteristics & problem. Rural & Urban, Morphology of cities, Problems related to Human Settlements in developing country.

Unit-I : Introduction :-

- Location, Neighborhood relations and place of India in the world.

Unit-II : Physical aspects & drainage systems :-

- Physiography
- Relief
- Drainage systems
- Physical divisions

Unit-III : Climate, Vegetation and soil :-

- Weather & climate, Distribution of temperature, pressure, winds & rainfall. Indian monsoons, distribution. Wildlife conservation
- Soil, Major types (ICAR classification) their distribution and conservation.

Unit-IV : Resources and development –

- **Land Resources** : Agriculture land-use, major crops and Agricultural development and problems.
- **Water resources** : Achievement and usages, problems and conservation.
- **Mineral and Energy resources** : Metals and non- metals, minerals and its distribution and conservation, conventional and non-conventional resources of Energy.

Unit-V : Transport, communication & International Trade –

- Road, Railway, Water-ways, Airways, Gas and Oil pipeline, National electricity grid.

Unit-VI : Population –

- Distribution, density & growth, composition of population, language and religion, rural-urban population.

Unit-VII : Natural Hazards and managements –

- Flood and Drought, Earthquake and volcano, landslides, cyclones, T-sunami.