

**Geography ( Code No. 15 )****PAPER - I**

## PART - I

**Physical Geography****1. Geomorphology**

- (1) Origin of the Earth- Theories regarding the origin of the earth.
- (2) Earth's crust- Origin of rocks, their types, Interior of the earth, Theories regarding the origin of continents and mountains, Agents of denudation- Weathering and Erosion, Work of running water, underground water, glacier, wind and oceanic waves. Earthquakes, Volcanoes and their world distribution.
- (3) Landforms- Mountains, Plateaus and Plains-types and their world distribution

**2. Climatology**

- (1) Atmosphere: Structure and composition of atmosphere, Vertical distribution of atmospheric layers and their characteristics.
- (2) Temperature: Horizontal distribution of temperature.
- (3) Pressure and wind system: Pressure belts of the globe, Types of winds and their distribution, local winds, jet stream, Air masses and Fronts, Cyclones and Anticyclones and their related weather.
- (4) Humidity, Condensation and Precipitation: Measurement of humidity in the air, Types of condensation and precipitation, Distribution of precipitation over the globe.
- (5) Classification of Climates: The general classification of world climate by Koppen and Thornthwaite.

**3. Oceanography:**

- (1) Relief features of the ocean beds, Origin of continental shelf, continental slope and basins , ocean deeps and ocean canyons.

- (2) Temperature and salinity of oceans- causes and regional variations.
- (3) Oceanic movements: Waves, Currents and Tide.
- (4) Marine deposits and Coral reefs: Source, types and distribution of marine deposits, Origin of coral reefs, important coral reefs of the world.

## **PART - II**

### **Geographical Concepts, Human and Economic Geography**

#### **1. New Trends in Geography**

Concept of distance, space, region, regionalization and regionalism, Environmental sustainability.

#### **2. Human Geography**

- (1) Population- growth, density and distribution in the world, Population problems of the developed and developing countries.
- (2) Settlements: origin, types and pattern of rural settlements, Process of urbanization, Morphology and functional classification of towns.

#### **3. Economic Geography**

- (1) Geography of primary production: Agriculture-wheat, rice, sugarcane, tea, coffee, cotton, rubber. livestock and fisheries.
- (2) Minerals: world production and distribution of iron ore, manganese, tin, and bauxite.
- (3) Power Resources; world distribution of coal, petroleum, and hydroelectricity.
- (4) Industries: Iron and steel, Cotton textile and Petro chemical industry, Major industrial regions of the world.
- (5) Transport and Communication: Major land, sea and air routes of the world, Changes in the world economy in the context of globalization.

**GEOGRAPHY (CODE NO. 15)****PAPER - II****Geography of India with special reference to Madhya Pradesh****1. Physical Aspects**

Geological history of Indian sub-continent, Physiographic divisions and drainage system, Physical divisions of Madhya Pradesh.

**2. Climate**

Temperature and pressure conditions, Origin and mechanism of Indian monsoon, Distribution of rainfall, Climatic regions, Distribution of rainfall and water scarcity areas of Madhya Pradesh.

**3. Soils and Natural Vegetation**

Soil types and their distribution, Forest types and their distribution. Problems of soil erosion in Madhya Pradesh, Forest resources of Madhya Pradesh.

**4. Population and Settlements**

Growth, density and distribution of population, Population policies of India. Tribes of Madhya Pradesh, Process of urbanization in India, Problems of Indian cities.

**5. Economic Aspects**

- (1) **Agriculture** - Major crops- their distribution and changing pattern. Contemporary issues of agricultural sector- Impact of green revolution, Market economy and globalization and its impact on agriculture pattern and changing trends in M.P.
- (2) **Minerals and Power Resources** - Distribution and production of Iron ore, Manganese, Bauxite, Mica, Coal, Petroleum and Hydroelectricity
- (3) **Industries** - Factors of localization and distribution of Iron and Steel, Cotton textile, Sugar and Cement industries . Emerging industrial areas of Madhya Pradesh.

- (4) **Trade and Transport** - Indian road and rail transport network. Changing pattern of Indian international trade.
- (5) **Regional Development and Planning** - Concept of regional imbalance and regional planning. Problems and planning of hill areas, drought prone areas and flood prone areas. Narmada valley development in Madhya Pradesh.