

## **Geography Class 01**

### **GENERAL DISCUSSION (09:10 AM)**

#### **GEOGRAPHY IN UPSC-CSE (09:20 AM)**

- Geography is the study of the physical features of Earth and the atmosphere and various related aspects.
- **Why study Geography?**
- Policy Making and Implementation
- Management of Resources

#### **WHAT IS GEOGRAPHY? (09:39 AM)**

- **Cosmology: Universe and Galaxies, Solar System, etc.**
- **Physical Geography: Geomorphology Climatology Oceanography Biogeography**
- **Social Geography: Settlement, Population, and Culture**
- **Economic Geography: Mineral and Other Natural Resources.**
- **Syllabus:**
- **Prelims Exam:** Indian and World Geography-Physical, Social, Economic Geography of India and the World.
- **Mains Exam:**
- **In GS1 Paper:**
- Salient Features of World Physical Geography
- Distribution of key natural resources across the world (including South Asia and the Indian subcontinent); factors responsible for the location of primary, secondary, and tertiary sector industries in various parts of the world (including India).
- Important Geophysical phenomena such as earthquakes, tsunamis, Volcanic activity, cyclones, etc., geographical features and their location changes in critical geographical features (including water-bodies and ice-caps) and in flora and fauna and the effects of such changes.

- **In GS3 Paper:**

- Major crops-cropping patterns in various parts of the country
- Infrastructure: Energy, Ports, Roads, Airports, Railways, etc.
- Conservation, environmental pollution, and degradation, environmental impact assessment.
- Disaster and disaster management.

## UNITS IN GEOGRAPHY

<b>Physical Geography - World</b>	<b>Physical Geography - India</b>	<b>Economic &amp; Human Geography – World &amp; India</b>
Earth, Solar system and Universe	Physiography	Oceanic and water resources
Geomorphology	Drainage pattern	Natural Vegetation
Climatology	Climate	Agriculture
Oceanography	Soil	Mineral and energy resources
Biogeography		Industries
		Transportation & infrastructure
		Population & Settlements
Mapping		

## **SOURCES (10:34 AM)**

- Class Notes
- Secondary Sources: Vision IAS Material
- **Reference Books:**
- NCERT Class XI - Fundamentals of Physical Geography
- India Physical Environment
- Fundamentals of Human Geography
- India People and Economy
- **Following chapters from Certificate Physical and Human Geography by GC Leong:**
- Chapters 1 to 4
- Chapters 12 to 14
- Chapters 15 to 25
- Total Geography Class 10th ICSE
- Physical Geography by Savindra Singh
- School Atlas

## **TOPICS (11:22 AM)**

- **Earth, Solar System, and Universe**
- Shape of Earth
- Latitudes & Longitudes
- Rotation & Revolution
- Seasons
- Time zones and IDL
- Universe and Origin of Universe
- The life cycle of a star
- Galaxies and stars
- Origin of the solar system
- Sun
- Planets, satellites, and other bodies
- Eclipses

## INTRODUCTION TO GEOGRAPHY (11:25 AM)

- Geo plus graphy means the description of the earth.
- The term geography was coined by **Eratosthenes**. He is also known as the father of Geography.
- Geography is the study of places and relationships between people and their environment.
- **Shape of the Earth: 11:28**
- **Evidence for spherical shape:**
- **1. Circum Navigation:** First done by **Magellan** in 1590.
- **2. Circular Horizon:** The horizon appears circular when viewed from a ship.
- The area covered by the horizon increases with an increase in altitude.
- **Ships visibility:** A ship appears to be rising from the waters gradually
- **Bedford Level Experiment**
- **Sunrise and Sunset:** Different timing of Sunrise and Sunset at different places is possible only if the earth is spherical in shape.
- **Lunar Eclipse:** Due to which the circular shadow of the earth is visible.
- The shape of other planetary bodies.
- **Geoid:**
- The earth is flattened near the pole and bulged at the equator.
- It is due to the continuous rotation of the earth.
- This shape of the earth is called a **Geoid or Oblate Spheroid**.
- Newton proposed this for the first time and he said the same applies to other planets too.

**The topic for Next Class: Latitude, Longitude, Rotation, Revolution, etc.**