# **India: Geographical Features**

## Introduction

India is a land of remarkable geographical diversity, often called a "subcontinent" due to its vast size and distinct physical features. Located in South Asia between 8°4' N to 37°6' N latitude and 68°7' E to 97°25' E longitude, it covers 3.28 million sq km - the 7th largest country by area. This chapter explores India's majestic mountains, fertile plains, rugged plateaus, and coastal regions that shape its climate, resources, and human settlements.

A[Geographical Diversity] --> B[6 Physical Divisions]

A --> C[7 Climate Zones]

A --> D[12 Major River Systems]

# 1. Physical Divisions

# A. The Great Himalayan Range

- Three parallel ranges:
  - 1. Himadri (Greater Himalayas) Mt. Everest (8849m)
  - 2. Himachal (Lesser Himalayas) Hill stations like Shimla
  - 3. Shiwalik Youngest and outermost range

#### **Ecological Importance:**

- "Water tower of Asia" (Ganges, Indus, Brahmaputra originate here)
- Blocks cold Central Asian winds

## **B. Northern Plains**

Section	Rivers	Fertility Level
Punjab Plains	Satluj, Beas	Highly fertile (Alluvial soil)
Ganga Plains	Ganges, Yamuna	Most agriculturally productive
Brahmaputra Valley	Brahmaputra	Prone to floods

## 2. Peninsular India

## **Deccan Plateau Features:**

- Rich in black soil (ideal for cotton)
- Bordered by Western & Eastern Ghats
- Contains mineral wealth (iron, bauxite)

#### **Coastal Comparison:**

West Coast	East Coast
Narrow, steep	Wide, deltas
Fewer ports	Major ports (Chennai, Kolkata)

# 3. River Systems

## **Himalayan vs Peninsular Rivers:**

Feature	Himalayan	Peninsular
Origin	Glaciers	Rainfall
Flow	Perennial	Seasonal
Example	Ganges	Godavari

#### Importance:

- Irrigation (60% agriculture dependent)
- Hydropower (Bhakra Nangal, Tehri dams)
- Cultural significance (Ganges is sacred)

# 4. Climate & Vegetation

## **Seasonal Cycle:**

**Annual Seasons** 

"Winter (Dec-Feb)" : 20
"Summer (Mar-May)" : 25
"Monsoon (Jun-Sep)" : 50
"Post-Monsoon (Oct-Nov)" : 5

## **Natural Vegetation Types:**

- 1. Tropical Evergreen (Western Ghats)
- 2. Deciduous (Central India)
- 3. Desert (Thar)
- 4. Mangrove (Sundarbans)

## **Case Study: Thar Desert**

## **Unique Features:**

- World's most densely populated desert
- Contains India's largest saltwater lake (Sambhar)

#### **Adaptations:**

Camel breeding
Drought-resistant crops (millet)

## **Chapter Summary**

- $\checkmark$  6 Physical Divisions shape India's landscape
- ✔ Rivers are lifelines for agriculture and culture
- ✓ Monsoon dominates climate patterns
- ✓ Resource distribution varies regionally

## **Activities**

## 1. Map Work:

o Mark: Highest peak in each zone

o Shade: Major soil types

## 2. **Project**:

Create a "Rainfall Diary" comparing your region with Cherrapunji

### Visuals to Add:

![India Relief Map]



#### **Did You Know?**

The Deccan Traps were formed by volcanic eruptions lasting 30,000 years!