

# Upsc | Day 14: Geography - Mapping | BNC Academy

# 💶 India: Physical Features & Rivers

# 📍 Himalayan Ranges & Passes

#### • Himalayan Ranges:

- The Himalayas are a young fold mountain range, formed by the collision of the Indo-Australian and Eurasian tectonic plates. They are divided into several parallel ranges:
  - **Karakoram:** The northernmost range, known for its high peaks, including K2 (the second highest peak in the world).
  - Ladakh: Located south of the Karakoram, it's a high-altitude, cold desert region.
  - Zanskar: South of Ladakh, it's a rugged mountain range with deep valleys.
  - **Pir Panjal:** Further south, it's a lower Himalayan range known for its scenic beauty.
  - Dhauladhar: Also in the Lesser Himalayas, it's known for its striking white peaks.

#### Important Passes:

- o Mountain passes are crucial for transportation and trade through the Himalayas.
  - Nathu La (Sikkim): Connects Sikkim with Tibet (China). Historically a significant trade route.
  - Bomdi La (Arunachal Pradesh): Connects Arunachal Pradesh with Tibet.
  - Zoji La (Jammu and Kashmir/Ladakh): Connects the Kashmir Valley with Ladakh.
  - Shipki La (Himachal Pradesh): Connects Himachal Pradesh with Tibet.

# 🃍 Major Rivers & Their Tributaries

#### • Indus River System:

- o Originates in Tibet and flows through Ladakh and Pakistan into the Arabian Sea.
- Tributaries:
  - Jhelum: Flows through the Kashmir Valley.
  - Chenab: The largest tributary of the Indus.
  - Ravi: Flows through Himachal Pradesh and Punjab.
  - Beas: Originates in the Himalayas and flows through Himachal Pradesh and Punjab.
  - Sutlej: Originates in Tibet and flows through Himachal Pradesh and Punjab.

#### Ganga River System:

- o Originates in the Himalayas and flows eastward into the Bay of Bengal.
- o Tributaries:
  - Yamuna: Originates in the Himalayas and joins the Ganga at Prayagraj (Allahabad).
  - **Gomti:** Originates in the plains and flows through Uttar Pradesh.
  - Ghaghara: Originates in Tibet and flows through Nepal and India.
  - Kosi: Known as the "Sorrow of Bihar" due to its frequent floods.

#### • Peninsular Rivers:

- These rivers originate in the Western Ghats and flow eastward into the Bay of Bengal or westward into the Arabian Sea.
  - Godavari: The longest peninsular river.
  - **Krishna:** Another major river flowing eastward.
  - Kaveri: Flows through Karnataka and Tamil Nadu.
  - Narmada: Flows westward into the Arabian Sea.
  - Tapi (Tapti): Also flows westward into the Arabian Sea.

#### Lakes of India

- Wular Lake (Jammu and Kashmir): The largest freshwater lake in India.
- Chilika Lake (Odisha): The largest brackish water lake in India.
- Vembanad Lake (Kerala): A long brackish lagoon along the Kerala coast.
- Pulicat Lake (Andhra Pradesh and Tamil Nadu): A brackish lagoon.
- **Loktak Lake (Manipur):** Known for its floating phumdis (heterogeneous mass of vegetation, soil, and organic matter).

#### Mountains & Plateaus

#### • Western & Eastern Ghats:

- These are mountain ranges along the western and eastern coasts of India.
- o The Western Ghats are higher and more continuous than the Eastern Ghats.

#### • Deccan Plateau:

o A large plateau in southern India, formed by volcanic activity.

#### Chhota Nagpur Plateau:

• Located in eastern India, rich in mineral resources.

#### Deserts & Wetlands

- Thar Desert (Rajasthan): A large arid region in northwestern India.
- Rann of Kutch (Gujarat): A salt marsh region.
- **Sundarbans (West Bengal):** The largest mangrove forest in the world, located in the delta of the Ganga and Brahmaputra rivers.

### 📍 Coastal Regions & Islands

#### Andaman & Nicobar Islands:

A group of islands in the Bay of Bengal.

#### • Lakshadweep Islands:

o A group of coral islands in the Arabian Sea.

#### • Important Ports:

- These ports facilitate trade and commerce.
  - Mumbai (Maharashtra): A major port on the west coast.
  - Chennai (Tamil Nadu): A major port on the east coast.
  - Kochi (Kerala): A major port on the southwest coast.
  - Visakhapatnam (Andhra Pradesh): A major port on the east coast.