Ch-2 STRUCTURE AND PHYSIOGRAPHY

Key points

- The northeastern part of the Kashmir Himalayas is a cold desert- Ladakh.
- The Kashmir Himalayas are also famous for Karewa formations, which are useful for the cultivation of Zafran, a local variety of saffron.
- Most of tribal communities in Arunachal Himalayas practise Jhumming. It is also known as shifting or slash and burn cultivation.

Describe the three geological divisions of India.

- THE PENINSULAR BLOCK:
 - It is formed of very ancient gneisses and granites,
 - It has been standing like a rigid block.
 - o its western coast is submerged beneath the sea.
 - o it consists of relict and residual mountains like the Aravali hills,
- THE HIMALAYAS AND OTHER MOUNTAINS
 - o They are young, weak and flexible in their geological structure.
 - These mountains are tectonic in origin, dissected by fast-flowing rivers which are in their youthful stage.
- INDO-GANGA-BRAHMAPUTRA PLAIN
 - The plains are formed by the river Indus, the Ganga and the Brahmaputra.
 - o Originally, it was a depression which has been gradually filled by the sediments.
 - o Average depth of alluvial deposits in these plains ranges from 1,000-2,000 m.

Describe the features of the North and Northeastern Mountains

- They consist of a series of parallel mountain ranges such as Great Himalayas and the Shiwalik.
- The approximate length is 2,500 km from east to west, and their width varies between 160-400 km from north to south.
- they stand almost like a strong and long wall between the Indian subcontinent and the Central and East Asian countries.
- Important sub-divisions are: (i) Kashmir or Northwestern Himalayas (ii) Himachal and Uttarakhand Himalayas (iii) Darjiling and Sikkim Himalayas (iv) Arunachal Himalayas (v) Eastern Hills and Mountains.

Describe the features of The Northern Plains

- They are formed by the alluvial deposits brought by the rivers the Indus, the Ganga and the Brahmaputra.
- These plains extend approximately 3,200 km from the east to the west. The average width of these plains varies between 150-300 km.
- The maximum depth of alluvium deposits varies between 1,000-2,000 m.
- From the north to the south, these can be divided into three major zones: the Bhabar, the Tarai and the alluvial plains.
- The alluvial plains can be further divided into the Khadar and the Bhangar.
- These river valley plains have a fertile alluvial soil and hence, supports a large population.

Describe the features of The Indian Desert

- To the northwest of the Aravali hills lies the Great Indian desert.
- It is a land of undulating topography dotted with longitudinal dunes and barchans.
- This region receives low rainfall below 150 mm per year; hence, it has arid climate with low vegetation cover.

- It is because of these characteristic features that this is also known as Marusthali.
- It is believed that during the Mesozoic era, this region was under the sea.
- Most of the rivers in this region are ephemeral. The Luni river flowing in the southern part of the desert.

Distinguish between the two types of Coastal Plains

- Coastal plain are of two types: (i) the western coastal plains; (ii) the eastern coastal plains.
 - (i) the western coastal plains
 - o The western coastal plains are submerged.
 - o It has natural conditions for the development of ports and harbours. Eg. Kandla port.
 - The rivers flowing through this coastal plain do not form any delta.
 - o It is known by different names such as Kathiawar coast, Konkan coast etc.
 - o Backwaters of 'Kayals' are used for fishing, inland navigation.
 - (ii) the eastern coastal plains
 - The eastern coastal plain is broader and is an example of an emergent coast.
 - There are welldeveloped deltas here, formed by the rivers flowing eastward in to the Bay of Bengal.
 - o Because of its emergent nature, it has less number of ports and harbours.
 - The continental shelf extends up to 500 km into the sea, which makes it difficult for the development of good ports and harbours.

Distinguish between the two major Islands group of India.

- There are two major island groups in India –
- Andaman and Nicobar islands in the Bay of Bengal:
 - The island groups consist of about 572 islands/islets.
 - The Andaman in the north and the Nicobar in the south are separated by Ten degree channel.
 - o These islands are an elevated portion of submarine mountains.
 - o Some smaller islands are volcanic in origin. Eg. Barren island
- Lakshadweep and Minicoy islands of Arabian Sea:
 - o These islands are located at a distance of 280 km-480 km off the Kerala coast.
 - The entire island group is built of coral deposits.
 - There are approximately 36 islands of which 11 are inhabited.
 - o Minicoy is the largest island with an area of 453 sq. km.