

Chapter - 8

Resource Wealth of India

Introduction

India is blessed with diverse natural resources. Extent of land, Physiographic characteristics, climate, soil type etc. are the factors influenced the development of our country. Resource availability and resource utilisation caused the development of agriculture, mining, industry and transport. This chapter deals with the geographical characteristics of these sectors.

Concepts

- ☐ Agriculture and agro based industries
- ☐ India is an agricultural country
- ☐ Kharif, Rabi, Zaid, are the cropping seasons in India
- ☐ Agricultural crops in India can be classified as food crops and cash crops
- ☐ The important food crops are rice, wheat, maize
- ☐ Cash crops are categorised in to fibre crops, beverage crops, spices and other crops
- ☐ Agro based industries
 - Cotton textile industry
 - Jute industry
 - Sugar industry
 - Tea, Coffee, Rubber, Spices
- ☐ Iron and steel, manganese are mineral based industries
- ☐ Mineral fuels - Coal, petroleum and natural gas
- ☐ Uranium and Thorium are major nuclear minerals
- ☐ Solar energy, Wind energy, Wave energy, Tidal energy and Biogas etc. are the major non conventional energy sources in India.
- ☐ Road transport, Railways, Water transport, Air transport are the different modes of transport.

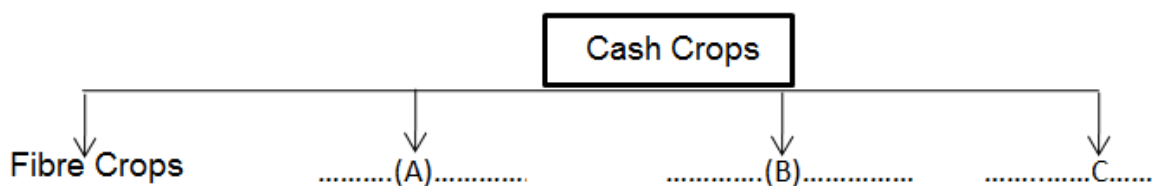
Questions

Answer in one word (1 score each)

1. The most suitable soil for rice cultivation?
2. The second major food crop in India?
3. Monsoon crops are otherwise called?
4. The largest agro based industry in India?
5. Which type of cash crops are cotton and jute?
6. The largest producer of tea in the World?
7. The leading rubber producing state in India?
8. Which type of fuel is coal?
9. The largest mineral based industry in India?
10. The first petroleum mined state in India?
11. Koodamkulam nuclear power plant is in ?
12. The largest public sector undertaking in India?
13. The cheapest means of transportation is?
14. The air traffic in India is under the control of?
15. The southern most port of India?

Answer the following questions (3 score each)

16. Complete the chart



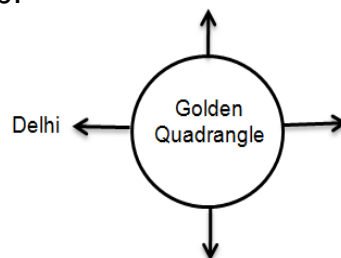
17. Which are the favourable factors for wheat cultivation?
18. What are the merits of non-conventional energy sources?
19. Which are the non ferrous metallic minerals?
20. Which are the raw materials of Iron and Steel industry?
21. Write the advantages of water transport?

22. Complete the table

Cropping Seasons	Sowing Period	Harvesting Period	Major Crops
Kharif	Onset of Monsoon	-----	Rice, Maize, Cotton
Rabi	-----	Beginning of Summer	Wheat, tobacco, Mustard
-----	Beginning of Summer	Beginning of Monsoon	Fruits, Vegetables

23. How railways are classified based on gauge width of railways?

24. Complete the word web:



Answer the following questions (4 score each)

25. Uttar Pradesh is the leading producer in both sugar cane and cane sugar. What is the reason behind it?
26. Human resource availability is one of the favourable factor that helped Mumbai to become the most important cotton textile centre. Which are the other factors?
27. List the major spices and write the favourable conditions for its cultivation?
28. Classify the roads in India?
29. Solar energy is one among the non conventional energy sources, which are the other sources?
30. Which are the regions in which inland water transport is largely used in India?
31. Match the following:

A	B
Coal	Metalic Mineral
Tea	Kharif Crop
Gold	Beverage Crop
Cotton	Mineral fuel

32. Choose the state of the following Iron and steel industry?

Bhilai steel plant

Rourkela steel plant

Durgapur steel plant

Bokaro steel plant

(Jharkhand, West Bengal, Odisha, Chattisgarh)

Answer the following questions (6 score each)

33. Write a short note on fossil fuels, petroleum and natural gas?

34. Classify the following ports in to western coast ports and eastern coast ports?

Visakhapatnam, Marmagao, Paradip, Kandla, Mangalore, Nhava Sheva, Chennai, Mumbai, Kolkata, Kochi, Tuticorin, Haldia

ANSWER KEY

1. Alluvial Soil
2. Wheat
3. Kharif
4. Cotton textile industry
5. Fibre crops
6. India
7. Kerala
8. Mineral fuel
9. Iron and steel industry
10. Assam
11. Tamil Nadu
12. Indian Railway
13. Water transport
14. Airport Authority of India
15. Tuticorin
16. (a) Beverage crops
(b) Spices
(c) Other crops

17. ♦ Well drained alluvial soil
 - ♦ 10° to 26° celcius temperature and 75cm of rainfall.
 - ♦ Mainly depends on irrigation as it is a winter crop.
18. ♦ Renewable
 - ♦ Cheap
 - ♦ Environment friendly
19. Gold, Silver, Copper, Bauxite
20. Iron ore, Coal, Manganese, Lime stone, dolomite
21. ♦ Cheapest means of transport
 - ♦ Suitable for large scale cargo transport
 - ♦ Does not create environmental pollution
 - ♦ Most suited for international trade
22. ♦ End of monsoon
 - ♦ Beginning of winter
 - ♦ Zaid
23. Broad Guage, Meter Guage, Narrow Guage.
24. Mumbai, Chennai, Kolkata
25. The sugar cane harvested must be immediately brought to the factories so as to extract the juice out of it. Otherwise the amount of sucrose in the sugar cane might decrease. So the sugar mills are established along with sugar cane cultivating regions. The largest producer of sugar cane in India is Uttar Pradesh. So Uttar Pradesh is the leading producer of sugar cane and cane sugar.
26. ♦ Easy availability of raw materials
 - ♦ Cheap availability of power
 - ♦ Export import possibilities of Mumbai port
 - ♦ Fresh water availability
27. Cardamom, Pepper, Nutmeg, Clove Ginger are the important spices.
 - ♦ Well drained forest soil or sandy soil
 - ♦ Tropical climate
 - ♦ Large amount of rainfall are the favourable factors
28. ♦ National Highways ♦ State Highways
 - ♦ District Roads ♦ Village Roads
29. Wind energy, Wave energy, Tidal power, Bio gas

30. Ganga - Brahmaputra rivers and their tributaries

- ♦ Godavari - Krishna rivers and their tributaries
- ♦ Backingham canal of Andra - Tamil Nadu region
- ♦ Mandovi and Zuvari rivers of Goa
- ♦ Back waters of Kerala (Any four)

31.

A	B
Coal	Mineral Fuel
Tea	Beverage Crop
Gold	Metalic Mineral
Cotton	Kharif Crop

32. Bhilai steel plant - Chattisgarh

Rourkala steel plant - Odisha

Durgapur steel plant - West Bengal

Bokaro steel plant - Jharkhand

33. ♦ Petroleum is the chief energy source for transportation through road, rail or air.
- ♦ Other than petrol diesel and numerous by-products are also obtained from petroleum such as chemical fertilisers, artificial rubber, artificial fibre, vaseline etc.
 - ♦ Petroleum mining in India started at Digboi in Assam
 - ♦ Petroleum producing states in India are Assam, Gujarat, and Maharashtra
 - ♦ The largest of the mines is the Mumbai High in Maharashtra
 - ♦ Natural gas is the fuel obtained alkong with petroleum. Exclusive reserves of natural gas also exist, especially along the coast of Tamil Nadu and Andhra Pradesh.

34.

Western Coast Ports	Eastern Coast Ports
Kandla	Tuticorin
Mumbai	Chennai
Nhava Sheva	Visakhapattanam
Marmagoa	Paradeep
Mangalore	Haldia
Kochi	Kolkatta

Supporting Material

Questions

1. Rice, the staple food crop of India is aCrop (1)
2. The food crop in India which is cultivated in both summer and winter.
3. Which type of cash crop is Tea and Coffee ?
4. The most important Cotton textile centre in India.
5. Which state is the leading producer in both sugar cane and cane sugar ?
6. The largest petroleum mine in India
7. Which product is known as universal fibre ?
8. The important port in Kerala is
9. Which is the most suited mode of transport for international trade ?
10. Which is the chief energy source for transportation through road, rail or air. ?
11. Which are the cropping seasons in India ?
12. Which are the main food crops in India ?
13. Name the important mineral fuels (Fossil Fuels)
14. Which are the important Coffee plantation states in India ?
15. Name the institutions which function in the air transport in India

Answer Key

1. Kharif
2. Maize
3. Beverage Crops
4. Mumbai
5. Uttar Pradesh
6. Mumbai High
7. Cotton
8. Kochi
9. Water Transport
10. Petroleum
11. Kharif, Rabi, Zaid
12. Rice, Wheat, Maize
13. Coal, Petroleum, Natural gas
14. Karnataka, Kerala, Tamil Nadu
15. Airport Authority of India
Air India
Indian Airlines