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IX Geography CHEPTER-5 NATURAL VEGETATION AND WILD LIFE

India is one of the twelve mega bio-diversity countries of the world. With about 47,000 plant species India occupies tenth place in the world and fourth in Asia in plant diversity. There are about 15,000 flowering plants in India which account for 6 per cent in the world's total number of flowering plants. The country has many non-flowering plants such as ferns, algae and fungi. India also has approximately 90,000 species of animals as well as a rich variety of fish in its fresh and marine waters.

Factors Responsible for Diversity in Flora and Fauna

RELIEF: I

and Soil

CLIMATE: Temperature Photoperiod (Sunlight)

Precipitation

TYPES OF VEGETATION

The following major types of vegetation may be identified in our country.

(i) Tropical Evergreen Forests

(ii) Tropical Deciduous Forests

(iii) Tropical

Thorn Forests and Scrubs (iv) Mountain Forests

(v) Mangrove Forests

WILD LIFE

India is rich in its fauna. It has approximately 90,000 of animal species. The country has about 2,000 species of birds. They constitute 13% of the world's total. There are 2,546 species of fish, which account for nearly 12% of the world's stock. It also shares between 5 and 8 per cent of the world's amphibians, reptiles and mammals.

The elephants are the most majestic animals among the mammals. They are found in the hot wet forests of Assam, Karnataka and Kerala.

One-horned rhinoceroses are live in swampy and marshy lands of Assam and West Bengal.

Arid areas of the Rann of Kachchh and the Thar Desert are the habitat for wild ass and camels.

Indian bison, *nilgai* (blue bull), *chousingha* (four horned antelope), gazel and different species of deer are some other animals found in India

India is the only country in the world that has both tigers and lions. The natural habitat of the Indian lion is the Gir forest in Gujarat.

Tigers are found in the forests of Madhya Pradesh, the Sundarbans of West Bengal and the Himalayan region.

Ladakh's freezing high altitudes are a home to yak, the shaggy horned wild ox weighing around one tonne, the Tibetan antelope, the bharal (blue sheep), wild sheep, and the *kiang* (Tibetan wild ass).

In the rivers, lakes and coastal areas, turtles, crocodiles and gharials are found.

Peacocks, pheasants, ducks, parakeets, cranes and pigeons are some of the birds inhabiting the forests and wetlands of the country.

To protect the flora and fauna the government has taken followings steps.

- (i) Fourteen biosphere reserves have been set up in the country to protect flora and fauna.
- (ii) Financial and technical assistance is provided too many Botanical Gardens by the government since 1992.
- (iii) Project Tiger, Project Rhino, Project Great Indian Bustard and many other eco developmental

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projects have been introduced

(a) Royal Bengal Tiger

(b) Leopard

(iv) 89 National Parks, 490 Wildlife sanctuaries and Zoological gardens are set up to take care of Natural heritage.

Fourteen Bio-reserves		
Sunderbans	Simlipal	
Gulf of Mannar	Dihang-Dibang	
The Nilgiris	Dibru Saikhowa	
Nanda devi	Agasthyamalai	
Nokrek	Kanchenjunga	
Great Nicobar	Pachmari	
Manas	Achanakmar-Amarkantak	

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Multiple Choice Ques	tions (MCQ)			
Q.1 Which of the following word is used to denote plants of a particular region ?				
(a) Flora	(b) Fauna	(c) Natural Vegetation (d) Vegetation	
Q.2 Which of the foll	<mark>owi</mark> ng word is used to der	note species of animals of	a particular region ?	
(a) Flora	(b) Fauna	(c) Natural Vegetation (d) Vegetation	
Q.3 Where are mang	<mark>rov</mark> e forests found ?			
(a) Desert	(b) Deccan Plateau	(c) The Himalayas		
(d) The coastal area inf	luenced by tides			
Q.4 A very large eco	system on land heaving d	istinct types of vegetatior	and animal life is called	
(a) Ecosystem	(b) Flora and Fauna	(c) Biome (d	d) Vegetation	
Q.5 Which of the following vegetation is not found in India?				
(a) Tropical Evergreen	Forests	(b)Tropical Deciduous F	orests	
(c) Mangrove Forests		(d) Mediterranean type		
Q.6 Which parts/reg	ions of India have tropical	evergreen forests?		
(a) Western Ghats, Upp	per parts of Assam	(b) North Western parts	of country	
(c) The Deltas of the G	anga and the Mahanadi	(d) Mountainous areas		
Q.7 In which of the following states forests you will find one horned rhinoceros?				
(a) Madhya P <mark>radesh</mark>	(b) Assam	(c) Gujarat (d	d) Kerala	
Q.8 Which of the foll	<mark>owing is not a tre</mark> e of Trop	oical Evergreen Forests?	ПЭ	
(a) Acacia	(b) Rosewood	(c) Ebony (d	d) Rubber	
Q.9 Which of the foll	owing is the most wide sp	read vegetation of India	?	
(a) Tropical Evergreen	Forests	(b)Tropical Deciduous F	orests	
(c) Mangrove Forests		(d) Mediterranean type		
Q.10Which of the following animal is not found in mountain forests?				
(a) Kashmir Stag	(b) Leopard	(c) one horned rhinocer	os (d) Yak	
Q.11Which is the famous animal of the mangrove forests?				

(c) Monkey

(d) Lion

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n which of the following states/ regions	the wild ass are found?	Ī

- Q.12 In which of the followi
- (a) Assam (b) Rann of Kachchh (c) Tamil Nadu (d) Manipur
- Q.13 Which of the following has not been included in the world network of Biosphere reserves?
- (a) Sunderbans
- (b) Manas
- (c) Nanda Devi
- (d) Nilgiris
- Q.14 In which of the following states is the Simlipal Biosphere reserve located?
- (a) West Bengal
- (b) Andhra Pradesh
- (c) Maharashtra
- (d) Orissa

- Q.15 Which of the following is not correctly matched?
- (a) Dudhwa Rajasthan
- (b) Manas Assam
- (c) Dachigam J & K
- (d) Gir Gujrat
- Q.16To which one of the following types of vegetation does rubber belong to?
- (a) Tundra
- (c) Himalayan (b) Tidal
- (d) Tropical Evergreen
- Q.17Cinchona trees are found in the areas of rainfall more than
- (a) 100 cm
- (c) 70 cm
- (b) 50 cm
- (d) less than 50 cm
- Q.18In which of the following state is the Simlipal bio-reserve located?

- (b) Delhi
- (c) Odisha
- (d) West Bengal
- Q.19Which one of the following bio reserves of India is not included in the world network of bio

reserve?

(a) Manas

- (c) Gulf of Mannar
- (b) Nilgiri
- (d) Nanda devi

Short Answer Questions

Q.1 Mention any three features of Nokrek Biosphere Reserve.

Ans

- 1. Nokrek Biosphere Reserve is a national park located 2 km from Tura Peak in the Garo Hills district of Meghalaya in India.
- 2. UNESCO added this National park to its list of Biosphere Reserves in May 2009.
- 3. There is a vast range of plants and animals found in the park, including the fishing cat, the serow and the tiger. Famous sites in the park include the famous Siju Cave.
- **Q.2** How does relief and rainfall influence the distribution of natural vegetation in India. Explain.
- The relief and rainfall of any region determine the natural vegetation of that place. In Indian Ans sub-continent it can be seen through the following points:
- 1. The western slopes of the Western Ghats receive more than 200 cm of rainfall. Due to heavy rainfall, tropical evergreen forests are found in this region on a large scale.
- 2. Indifferent mountainous regions different types of vegetation are found, at the height of 1500 to 3000 coniferous trees are found but at the height of 1000 to 2000 wet temperate forests are found.
- 3. In areas with rainfall of 70 cm to 100 cm and in semi-arid regions, the vegetation consists of acacias and palm.
- Q.3 What is biome? State the number of biomes into which land ecosystem is divided with their names.
- A large ecosystem on the land having distinct type of vegetation and animal life is called Ans biome. In general, biomes are divided into the following categories:

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- 1. Forests: It consists of evergreen forests, deciduous forests, and coniferous forests.
- 2. Grasslands: Savana grasslands.
- 3. Alpine/Tundra vegetation.
- Desert vegetation.

Though the animals are also included in the biomes but they are not counted in the classification of biomes.

Q.4 Distinguish between flora and fauna.

Ans The major differences between Flora and Fauna are as follows:

Flora	1771177	Fauna
1.	Natural vegetation growing in an	1. Wild life living in a particular area of
	particular area is referred as flora.	the globe is termed as Fauna.
2.	It makes its food with help of	2. They cannot make their own food so
	solar energy.	they are dependent upon the flora.
3.	It was the very first form of life	3. They developed on earth after flora
	that appeared on the earth in the	because they are dependent upon
	chronological history of earth.	flora.

Q.5 Why has India a rich heritage of flora and fauna? How can you say that India has rich bio-diversity?

Ans This is because the factors like, temperature, sunlight, precipitation, soil and relief are suitable for the growth and development of both animal and plant kingdom in India. These five factors are essential for the growth of the bio-diversity.

India has been listed among the twelve mega biodiversity countries of the world.47,000 plant species and 89,000 animal species are found here. Besides these species, there are about 15,000 flowering plants in India.

Q.6 Distinguish between thorn forests and mangrove forests.

Ans

Thorn Forests **Mangrove Forests 1. Rainfall:**Rainfall in these types of 1. Rainfall: These types of forests develop in the forests are somewhere 70 cmor deltaic region, and does not concern with the rainfall. less. 2. Vegetation: Babool, kiker, palm, 2. Vegetation: Sundari is the major tree type in cacti and acasia are the main plants. these types of forests. The others are Agar and **3. Location:** Found in semi-arid Keora. **3. Location:** They are found in the deltas of regions of Rajasthan, Gujrat, Haryana and Uttar Pradesh. Ganga, Mahanadi, Kaveri, Krishna and Godavary.

Q.7 "India has extremely rich and wild variety of fauna." Explain this statement.

Ans India has a rich variety of wild fauna. It can be explained through following ways:

1. The richness of wild variety of fauna is due to the high variety of variation in the relief, rainfall, temperature, etc. There are 89,457 known species of flora, out of which many are in

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the list of endangered species.

- 2. The variety of fauna can be seen in different parts of India such as in the mountains, the deserts, the plateaus, the rivers, the lakes, etc.
- 3. If we try to divide the species then it may make several groups as follows: Mammals 390, Fish 2546, Birds 1232, Insects 60,000, Reptiles 456, Mollusks 5,000, Amphibians 209.

Q.8 Write any three major factors responsible for the huge diversity in plant and animal kingdom?

Ans The three factors, which are responsible for the huge diversity in flora and fauna kingdom, are as follows:

- (i) Relief: Natural vegetation are different in mountains, plateaus and plain areas mainly due to the difference in their relief. It is also different in wet and dry land. Fertile level plains are generally devoted to agriculture. The undulating and rough terrains are devoted to terrace cultivation.
- (ii) Soil: Different types of soils provide basis for different types of vegetation. The sandy desert soils support cactus and thorny bushes. Wet, marshy and deltaic soils support mangroves and deltaic vegetation. The hill slopes with some depth of soil have conical trees.
- (iii) Temperature: On the hills of the Himalayas above the height of 915 metres, the temperature get reduce and affects the types of vegetation and its growth. This changes it from Tropical to Subtropical, Temperate and Alpine Vegetation.
- Q.9 Why are forests important in our life? Write any six points.

Ans Forests play a vital role in the life of human beings by:

- (i) Modifying local climate.
- (ii) Controlling soil erosion.
- (iii) Supporting a variety of industries.
- (iv) Providing livelihood for many communities.
- (v) Controlling wind and temperature and cause rainfall.
- (vi) Providing humus to the soil and shelter to the wild life.

Q.10 Distinguish between Montane Forests and Mangrove Forests. Give three differences.

Ans The major differences between montane forests and mangrove forests are as follows:

Montane forests Mangrove forests 1. The decrease in temperature with 1. These forests are found in the coastal areas increasing altitude leads to the appearance where mud and silt get accumulated. of montane forests at higher altitude. 2. These forests are mainly found along the 2. The deltas of the Ganga, the Mahanadi, the southern slope of the Himalayas, places Krishana, the Godavari and the Kaveri are having high altitude innorthern and northcovered by such vegetation. eastIndia. 3. Evergreen broad-leaf Oaks and 3. Dense mangroves are the common varieties Chestnuts are the common trees. with roots of the plants submerged under water. Between 1500 and 3000 meters, temperate Palm, coconut, keora, agar, also grow in some forest containing coniferous trees like pine, parts of the delta. deodar, silver fir, spruce and cedar, are found.

Q.11 What is a Biosphere Reserve? Name the four-biosphere Reserves of India, which

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have been included in the world network of biosphere reserve?

Ans Biosphere reserves are areas of terrestrial and coastal ecosystems promoting solutions to reconcile the conservation of biodiversity with its sustainable use.

Four-biosphere reserves of India, which have been included in the world network of biosphere reserves reserves are:

- (i) The Sunderbans in the West Bengal
- (ii) Nanda Devi in Uttranchal
- (iii) The Gulf of Mannar in Tamil Nadu
- (iv) Nilgiris of Kerala, Karnataka and Tamil

Nadu

Map Questions

- Q.1 Label the following on the outline map of India:
- 1. Two wild life sanctuaries in each, northern, southern and eastern parts in India.
- 2. Two bird centuries in south India.
- Q.2 On an outline map of India, label the following:
- 1. Rain Forest.
- 2. Tropical Deciduous Forest.
- 3. Montane Forest. 4. Mangrove

Forest.

- Q.3 On an outline map of India, show the following:
- a. Gir forests. b. Jim Corbett national park.
- c. Manas national park.
- d. Bandipur

national park.

- Q.4 Four features from (i) to (iv) are shown in the given outline political map of India. Identify these features with the help of the following information and write their correct names in your answer book:
- (i) A wildlife sanctuary in Jammu & Kashmir
- (ii) Type of forest

(iii) A National park in Assam

- (iv) A bird sanctuary in Rajasthan
- Q.5 Four features from (i) to (iv) are shown in the given outline political map of India. Identify these features with the help of the following information and write their correct names in your answer book:
- (i) A national park in Assam

- (ii) A National Park in Madhya Pradesh
- (iii) A Wildlife Sanctuary in Uttaranchal
- (iv) A Bird Sanctuary in Karnataka

