Textbook Questions

Q. 1. Name the elements that determine the weather of a place.

Ans. Temperature, humidity, rainfall, wind speed etc. determine the weather at a place.

Q. 2. When are the maximum and minimum temperature likely to occur during the day.

Ans. The maximum temperature of the day occurs generally in the afternoon and the minimum temperature occurs generally in the morning.

Q. 3. Fill in the blanks.

(a) The average weather taken over a long time is called.............

(b) A place receives very little rainfall and the temperature is high throughout the year. The climate of the place will be .... and ....

(c) The two regions of the earth with extreme climatic conditions are ....

Ans. (a) climate of the place, **(b)** hot, dry, **(c)** polar and tropical regions.

Q.4. Indicate the type of climate of the following areas :

(a) Jammu and Kashmir

(b) Kerala

(c) Rajasthan

(d) North-east India

Ans. (a) Jammu and Kashmir : moderately hot and wet climate.

(b) Rajasthan : Hot and dry climate.

(c) Kerala : Very hot and wet climate

(d) North-east India : The north eastern India receives rain for a major part of the year, hence wet climate.

Q. 5. Which of the two changes frequently, weather or climate?

Ans. Weather.

Q. 6. Following are some of the characteristics of animals :

(i)	Diets heavy on fruits	(ii)	White fur
(iii)	Need to migrate	(iv)	Loud voice
(v)	Sticky pads on feet	(vi)	Layer of fat under skin
(vii)	Wide and large paws	(viii)	Bright colours
(ix)	Strong tails	(x)	Long and large beak

For each characteristic indicate whether it is adaptation for tropical rainforests or polar regions. Do you think that some of these characteristics can be adopted for both regions?

Ans.

Characteristics of animals		Adaptation for
(i)	Diets heavy on fruits	Tropical rain forests
(ii)	White fur	Polar regions
(iii)	Need to migrate	Polar regions
(iv)	Loud voice	Tropical rain forests
(v)	Sticky pads on feet	Tropical rain forests
(vi)	Layer of fat under skin	Polar regions
(vii)	Wide and large paws	Polar regions
(viii)	Bright colours	Tropical rain forests
(ix)	Strong tails	Tropical rain forests
(x)	Long and large beak	Tropical rain forests

No, these characteristics cannot be adapted for both the regions.

Q. 7. The tropical rain forests have a large population of animals. Explain why it is so.

Ans. The climate of tropical rain forests is generally hot and humid with continuous rain. These hospitable climatic conditions support huge populations of plants and animals.

Q. 8. Explain, with examples, why we find animals of certain kind living in a particular climatic conditions.

Ans. Certain kind of animals can be found in particular climatic conditions as they can adopt well to those conditions, for example, a polar bear is adopted for polar regions. It

has a thick skin and a layer of fat to keep it warm in cold conditions. However, with these adaptations, it will not be possible for it to survive in tropical region where it is hot. Similarly, a monkey is adapted to live in the forests with features such as long and sturdy tail, loud voice, etc. These features are of no importance in polar regions where vegetation is very less. Therefore, certain types of animals live only in certain climatic conditions.

Q. 9. How do elephant living in the tropical rain forest adapt itself ?

Ans. The elephant living in the tropical rainforest has adapted itself in many remarkable ways. It uses its trunk as a nose due to which it has a strong sense of smell. The trunk is also used for picking up food. Its tusks are the modified teeth that can tear the bark of trees, that is its favourite food. It helps him to handle the competition for food. Large ears help him to hear even the soft sounds and also help to keep cool in hot and humid climate of rain forest.

Choose the correct option which answers the following questions :

Q. 10. A carnivore with stripes on its body moves very fast while catching its prey. It is likely to be found in

(i) polar regions

(iii) deserts

(ii) oceans

(iv) tropical rainforests

Ans. (iv) Tropical rainforests

Q. 11. Which features adapt polar bear to live in extremely cold climate?

(i) A white fur, fat below skin, keen sense of smell.

(ii) Thin skin, large eyes, a white fur.

(iii) A long tail, strong claws, white large paws.

(iv) White body, paws for swimming, gills for respiration.

Ans. (i) A white fur, fat below skin, keen sense of smell.

Q. 12. Which option best describes a tropical region?

(i)   Hot and humid

(ii) Moderate temperature, heavy rainfall

(iii) Cold and humid

(iv) hot and dry

Ans. (i) hot and humid.

Intext Questions

Q. 1. I wonder who prepares these weather reports.

Ans. The weather reports are prepared by the Meteorological Department of the Government, that collects the data on temperature, wind etc. and makes the weather prediction.

Q. 2. I wonder why weather changes so frequently? What is the source of weather in the first place?

Ans. Sun is the primary source of energy that causes changes in the weather.

Q. 3. Do fishes and butterflies also migrate like birds?

Ans. Yes, fishes and butterflies also migrate like birds to escape the extreme climatic conditions.

EXERCISE
(Based on Student Advisor Textbook)

(A) Multiple Choice Questions

1. Animals living in cold regions have :
   (a) long necks
   (b) fat for additional insulation
   (c) legs to run fast
   (d) long eye-lashes

2. Penguins are adapted to live in :
   (a) polar region
   (b) equatorial region
   (c) desert climate
   (d) rainforests

3. The short term variation which occurs in the atmosphere is called :
   (a) relative humidity (b) climate
   (c) climate chart   (d) weather

4. Which of the following best describes a tropical region ?
   (a) moderately hot, heavy rainfall (b) hot and humid
   (c) cold and humid   (d) hot and dry