

CBSE Class-VII Science

NCERT Solutions

CHAPTER-07

WEATHER, CLIMATE AND ADAPTATIONS OF ANIMALS

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

Answer: The elements that determine the weather of a place are:

- (i) Temperature,
- (ii) Humidity,
- (iii) Rainfall, and
- (iv) Wind speed

Question 2. When are the maximum and minimum temperatures likely to occur during day?

Answer: The maximum temperature of the day occurs in the afternoon while the minimum temperature occurs generally in the early morning,

Question 3. Fill in the blanks:

- (i) The average weather taken over a long time is called -----.
- (ii) The place receives very little rainfall and the temperature is high throughout the year, the climate of that place will be ----- and -----.
- (iii) The two regions of the earth with extreme climatic conditions are ____ and ____.

Answer: (i) The average weather taken over a long time is called **climate**.

(ii) The place receives very little rainfall and the temperature is high throughout the year, the climate of that place will be **dry** and **hot**.

(iii) The two regions of the earth with extreme climatic conditions are **tropical** and **polar**.

Question 4. Indicate the type of climate of the following areas;

- (a) Jammu and Kashmir: -----.
- (b) Kerala: -----.
- (c) Rajasthan: -----.

(d) North-east India: -----.

Answer: (a) moderately hot and wet.

(b) Hot and wet

(c) Hot and dry

(d) wet.

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

Answer: Weather changes frequently.

Question 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 colour

(ix) Strong tails

(x) Long and large beak.

For each of the following indicate whether it is adaptation for tropical rainforest or polar region.

Answer:

(i) Diets heavy on fruits.	Tropical rainforest
(ii) White fur	Polar regions
(iii) Need to migrate	Polar regions
(iv) Loud voice	Tropical rainforest
(v) Sticky pads on feet.	Tropical rainforest
(vi) Layer of fat under skin	Polar regions

(vii) Wide and large paws	Polar regions
(viii) Bright colour	Tropical rainforest
(ix) Strong tails	Tropical rainforest
(x) Long and large beak.	Tropical rainforest

Question 7. The tropical rain forest has large population of animals. Explain why it is so.

Answer: The tropical rainforest has a large population of animals due to favourable climatic conditions and easy availability of different kinds of foods. The regions is hot and humid with ample rainfall which supports the growth of animals and plants.

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

Answer: The organisms interact with the environment to survive. So, it is necessary for the organism to have characteristics that suits the environment.

Polar bears have white fur so that they are not easily visible in the snowy background. It protects them from their predators. It also helps them in catching prey. The thick layer of fur and fat deposit inside the skin insulate them to survive in cold climate.

Physical activities on warm days necessitate cooling. So, the polar bear goes for swimming.

It is a good swimmer. Its paws are wide and large, which help not only to swim well but also walk with ease in the snow.

Question 9. How do elephant living in the tropical rainforest adapt itself?

Answer: The elephant has adapted to the conditions of rainforests in many remarkable ways. It uses the trunk as a nose because of which it has as strong sense of smell. The trunk is also used by it for picking up food. Moreover, its tusks are modified teeth. These can tear the bark of trees that elephant love to eat. So, elephant is able to handle the competition for food rather well. Large ears of elephant help it to hear even soft sounds. They also help the elephant to keep cool in the hot humid climate of the rain forest.

Choose the correct option which answers the following question.

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

- (i) Polar regions
- (ii) deserts
- (iii) Oceans
- (iv) tropical rainforests

Answer: (iv) tropical rainforests.

Question 11. Which features adapt polar bears 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.

Answer: (i) a white fur, fat below skin, keen sense of smell.

Question 12. Which option best describe a tropical region?

- (i) Hot and humid.
- (ii) Moderate temperature, heavy rainfall.
- (iii) Cold and humid.
- (iv) Hot and dry

Answer: (i) hot and humid.