

NCERT Solutions for 7th Class Science: Chapter 7- Weather, Climate and Adaptations of Animals to Climate



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Exercises

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

(iv) Wind speed

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

Answer

The maximum temperature during the day occurs at the afternoon while the minimum temperature occurs in the early morning.

3. Fill in the blanks:

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

(ii) A 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.

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

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

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

(a) Jammu and Kashmir: _____

(b) Kerala: _____

(c) Rajasthan: _____

(d) North-east India: _____

Answer

a) Jammu and Kashmir → Moderately hot and wet

(b) Kerala → Hot and wet

(c) Rajasthan → Hot and dry

(d) North-east India → Wet

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

Answer

Weather changes frequently.

6. Following are some of the characteristics of animals:

(i) Diets heavy on fruits

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- (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 adapted for both regions?

Answer

- (i) Diets heavy on fruits → Tropical rainforests
- (ii) White fur → Polar regions
- (iii) Need to migrate → Polar regions
- (iv) Loud voice → Tropical rainforests
- (v) Sticky pads on feet → Tropical rainforests
- (vi) Layer of fat under skin → Polar regions
- (vii) Wide and large paws → Polar regions
- (viii) Bright colours → Tropical rainforests

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(ix) Strong tails → Tropical rainforests

(x) Long and large beak → Tropical rainforests

No, these characteristics can't be adapted for both regions as they are specific.

7. The tropical rainforest has a 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 region is hot and humid with ample rainfall which supports the growth of animals and plants.

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

Answer

We find animals of certain kind living in particular climatic conditions because every living organism is adapted to live in the particular habitat. Every living thing develops its features according to the adaptation area.

For example, penguins have thick skin to protect themselves from cold and webbed feet to swim in water. It can't be able to survive the hot climate of tropical regions as they developed thick skin for the protection from cold not from the hot and humid temperature.

9. How do elephants living in the tropical rainforest adapt themselves?

Answer

Elephants living in the tropical rainforest are well adapted themselves to this region.

(i) They have a strong sense of smell and use their trunk for smell and to hold food.

(ii) They also use their trunk to hold food.

(iii) They have long ears which help them in keeping cool in hot and humid climate.

(iv) Long ears help them in hearing very soft sound.

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(v) They have thick padded feet which help them in moving silently.

Choose the correct option which answers the following question:

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

(ii) deserts

(iii) oceans

(iv) tropical rainforests

Answer

► (iv) tropical rainforests

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, paws for swimming, gills for respiration.

Answer

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

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12. Which option best describes a tropical region?

(i) hot and humid

(ii) moderate temperature, heavy rainfall

(iii) cold and humid

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(iv) hot and dry

Answer

► (i) hot and humid



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- Chapter 4 Heat
- Chapter 5 Acids, Bases and Salts
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