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#636813

Name the elements that determine the weather of a place.

**Solution**

The temperature, humidity, rainfall, wind-speed, etc., are called the elements that determine the weather of a place.

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#636814

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

**Solution**

The maximum temperature of the day likely occurs in the afternoon and the minimum temperature occurs in the early morning.

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#636815

The average weather taken over a long time is called \_\_\_\_\_.

**Solution**

Climate of the place.

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#636816

A place receives very little rainfall and the temperature is high throughout the year. The climate of that place will be \_\_\_\_\_ and \_\_\_\_\_.

**Solution**

Dry Climates are characterised by little rain and a high daily temperature range.

So, the answer is: A place receives very little rainfall and the temperature is high throughout the year, the climate of that place will be hot and dry.

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#636817

The two regions of the earth with extreme climatic conditions are \_\_\_\_\_ and \_\_\_\_\_.

**Solution**

Moist Tropical Climates are known for their high temperatures and large amount of rain around the year. Polar regions have cold climates as they are covered by ice almost all the year round. Most areas are covered by glaciers or by a semi-permanent layer of ice.

So, the answer is: The two regions of the earth with extreme climatic conditions are polar region tropical region.

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#636819

Indicate the type of climate of the following areas.

- (a) Jammu and Kashmir;
- (b) Kerala;
- (c) Rajasthan;
- (d) North-east India.

**Solution**

- (a) Jammu and Kashmir- moderately hot and moderately wet climate.
  - (b) Kerala- very hot and wet climate.
  - (c) Rajasthan- hot and dry climate.
  - (d) North-east India- The north eastern India receives rain for a major part of the year, hence wet climate.
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#636820

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Which of the two changes frequently, weather or climate?

**Solution**

Weather changes frequently, it is the short-term changes in the atmosphere. It can be of minutes to months. Climate can be defined as the changes over longer periods of time and illustrates how the atmosphere behaves. The weather at a particular place can be measured day-to-day changes in the atmosphere with respect to temperature, humidity, rainfall etc...

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**#636822**

Followings 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 colors (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?

**Solution**

Characteristics of animals	Adaption for
(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 colors	Tropical rainforests
(ix) Strong tails	Tropical rainforests
(x) Long and large beak	Tropical rainforests

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**#636823**

The tropical rainforests has a large population of animals. Explain why it is so.

**Solution**

Because of continuous warmth and rain, the tropical region supports an enormous number and a wide variety of animals.

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**#636824**

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

**Solution**

Animals are adapted to survive in the conditions in which they live. Features and habits which help them to adapt to their surroundings are the result of evolution. So, to survive in a particular type of climate the animals must have certain adapted features. This is the reason we find animals of certain kind living in particular climate conditions. For example, animals in the polar region are adapted to the extremely cold climate. They have special characteristics, such as white fur, strong sense of smell, a layer of fat under the skin, wide and large paws for swimming and walking in snow etc.

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**#636826**

How do elephants living in the tropical rainforests adapt themselves?

**Solution**

The elephant has adapted to the conditions of rainforest in many remarkable ways. It has a trunk that it uses as a nose because of this it has a strong sense of smell. The trunk is also used by it for picking up food. Its tusks are modified teeth. These can tear the bark of trees that an elephant loves to eat. So, the elephant is able to handle the competition for food very well. Large ears of the elephant help it to hear even very soft sounds. They also help the elephant to keep cool in the hot\* humid climate of the rainforest.

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**#636828**

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

- A Polar regions
- B Deserts
- C Oceans
- D Tropical rainforests

**Solution**

Here, the given characteristics depict the features of the tiger. It is one of the topmost predators in the tropical rainforests because its unique adaptation is suitable to live in that environment. One among them is their dark fur coat, blue eyes and black stripes. Here, the black stripes are more than 100 in number and used for identification of tiger. It attacks other animals by surprise so it also knows as ambush predator and tigers are the very fastest animal.

So, the correct answer is option D.

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**#636829**

Which features adapt polar bears to live in extremely cold climate?

- A A white fur, fat below skin, keen sense of smell
- B Thin skin, large eyes, a white fur
- C A long tail, strong claws, white large paws
- D White body, paws of swimming, gills for respiration

**Solution**

Animals like polar bears in the polar regions may have the following adaptive features:

- 1) Low surface area to volume ratio
- 2) Small extremities to reduce heat loss - shorter ears and limbs
- 3) A thick layer of body fat/blubber - present in seals to reduce body heat loss.
- 4) Thick camouflaged fur
- 5) Thick fur on paws

So, the answer is A.

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**#636831**

Which option best describes a tropical region?

- A Hot and humid
- B Moderate temperature, heavy rainfall
- C Cold and humid
- D Hot and dry

**Solution**

Moist tropical climates are known for their high temperatures and a large amount of rain around the year. Due to the high temperature, tropical regions are hot and due to a large amount of rainfall, tropical regions are humid.

So, the answer is A.