



BIOLOGY

BOOKS - LAKHMIR SINGH & MANJIT KAUR

WEATHER, CLIMATE AND ADAPTATIONS OF ANIMALS TO CLIMATE

Exercise

1. What is the primary source of energy which causes changes in the weather?



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2. Name any two activities of our daily life which are planned according to the weather on a day.



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3. What term is used to denote the amount of water vapour (or moisture) in air?

A. Humidity

B. Weather

C. Climate

D. None of the above

Answer: A



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4. Name the instrument used to measure the rainfall at a place.



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5. Name the unit in which rainfall is measured.



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6. Which of two changes frequently : weather or climate?

A. weather

B. climate

C. both are changed frequently

D. None is changed frequently

Answer: A



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7. Name one state (or region) each in India having the following climates :

very hot and wet.



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8. Name one state (or region) each in India having the following climates :

Hot and dry.

A. Rajasthan

B. Jammu and Kashmir

C. Goa

D. Orissa

Answer: A



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9. Name one state (or region) each in India having the following climates :

Moderately hot and wet.



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10. Name one state (or region) each in India having the following climates :

wet.





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11. Name one state in India which has a typical tropical climate.



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12. Name one state in India which has a typical desert climate.



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13. Name two animals which live in the polar regions of the earth.



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14. Name two animals (other than polar bears and penguins) which live in the polar regions of the earth.



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15. Name a sea-bird which cannot fly.

A. penguin

B. Fulmar

C. Tropicbird

D. Gannet

Answer: penguin



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16. Name two places in India where the migratory bird called 'Siberian crane' comes every year from Siberia.



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17. Name any five types of animals which live in tropical rainforests.



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18. Name two big cats.



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19. Name the colourful bird having a long and large beak which lives in tropical rainforests.



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20. What is the most outstanding feature of lion-tailed macaque ?



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21. State whether the following statements are true or false:

Weather and climate are just the same.



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22. State whether the following statements are true or false:

Red eyed frog lives in the water of a pond.



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23. The temperature at a place is high most of the time and there is also heavy rainfall, on most of the days in the same place. What type of climate does this, place have?



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24. Fill in the blanks:

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



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25. Fill in the following blanks with suitable words :

The state of the atmosphere at a given place and time is called



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26. Fill in the blanks:

A place receives very little rainfall and the temperature is high throughout the year, the

climate of that place will be _____ and _____.



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27. Fill in the following blanks with suitable words :

The two regions of the earth with extreme climatic conditions are And



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28. Fill in the following blanks with suitable words :

The days are In winter than in summer.



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29. Fill in the following blanks with suitable words :

Tropical rainforests are found in and in India.

A. western ghats and Assam

B. eastern ghats and Uttarakhand

C. kutch and mumbai

D. rajasthan and himachal

Answer: western ghats and aasam



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



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31. Explain why, in summers we feel so miserable in the afternoon and comparatively comfortable in the early morning.



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32. What are the various types of information usually carried by the daily weather report in a newspaper?



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33. What is a rain gauge ? For what purpose is it used?



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34. How have the animals living in polar regions adapted to the extremely cold climate ?



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35. A polar bear is white. How does the white colour help in the survival of polar bear in polar region ?



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36. Write two common adaptive features of a polar bear which help in keeping it warm.



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37. A polar bear has two thick layers of fur and a layer of fat under the skin. How do these adaptations help the polar bear in its survival ?



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38. A polar bear has a very strong sense of smell,.How does this help the polar bear in its survival ?



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39. A polar bear has big feet (or big paws).What might be the advantages of this?



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40. A polar bear is a good swimmer. How does this feature help the polar bear in its survival ?



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41. How do elephant living in the tropical rainforest adapt itself.



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42. What are tusks ?How does an elephant make use of tusks for its survival ?



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43. which animal has large ears found in tropical forest ?

A. Big cats

B. Elephants

C. Monkeys

D. Toucan

Answer: B



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44. State the adaptation in red-eyed frog which helps it to climb on trees on which it lives.



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45. A toucan has a long and large beak. How does this adaptation help toucan in its survival on trees ?



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46. How are monkeys adapted to live on trees ?



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47. Where does lion-tailed macaque lives?
what does he eats ?



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48. State the adaptations in lion-tailed macaque which help it to live and survive on trees in the tropical rainforests.



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49. How is penguin adapted to live and survive in polar regions?



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50. State two features of a penguin which protect it from extreme cold in polar regions.



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51. Why do penguins huddle together ?

A. To keep warm

B. To lay eggs

C. To fly

D. None of these

Answer: A



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52. What are the various body features which make penguin a good swimmer ? How does being a good swimmer help a penguin ?



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53. What is meant by the migration of birds?
Why do birds migrate?



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54. What are migratory birds ? Name one migratory bird which visits warmer regions of India every year.



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55. Describe the climate in tropical regions: Also name an important feature of the tropical regions.



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56. Where are tropical rainforests found in India ?



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57. State two condition due to which tropical rainforests support a wide variety of plants and animals.



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58. Why does Siberian crane come from Siberia to place like Bharatpur in India every year for a few months?



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59. Adaptations in big cats which help in their survival.

A. camouflage and runs fast

B. strong sense of smell and sharp claws

C. thick layers of fat and fur

D. only a and b

Answer: D



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60. What is meant by 'weather' ? Name the elements which determine the weather of a place.



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61. What produces weather ? Why does weather change so frequently ?



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62. What is meant by 'climate' ? Explain with the help of an example. Name the four major types of climate .



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63. State the factors which affect the climate of a place. What is the difference in the locations of Srinagar and Thiruvananthapuram ? How do their climates differ ?



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64. What are polar regions ? Describe the climate in the polar regions of the earth. Name any five countries that belong to polar regions.





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65. What is meant by “adaptation“ ? Explain with the help of an example. How is polar bear adapted to live in extremely cold polar regions having snow all around ?



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66. What are tropical rainforests ? Name any five countries where tropical rainforest are found.



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67. Name some of the adaptations which help the animals live and survive in tropical rainforests.



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68. Why do we find animals of certain kinds living in particular climatic conditions ? Explain with examples.





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69. Which of the following normally live in tropical rainforests?

Elephant, Musk oxen, Reindeer, Lion-tailed macaque, Penguin, Toucan, Seal, Red -eyed frog, Siberian crane, Arctic fox.



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70. What is the difference between the weather and climate ? Indicate the type of

climate in the following areas:

Jammu and Kashmir.



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71. What is the difference between the weather and climate ? Indicate the type of climate in the following areas:

Kerala.



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72. What is the difference between the weather and climate ? Indicate the type of climate in the following areas:

North-East India.



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73. What is the difference between the weather and climate ? Indicate the type of climate in the following areas:

Rajasthan.





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74. How does the adaptation called 'migration' help the birds in their survival ? Name one bird and one mammal which migrate seasonally.



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75. An elephant has a long trunk. How does this adaptation help the elephant to live and survive in the tropical rainforest ?



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76. Which of the following option best describes a tropical region?

A. hot and humid

B. moderate temperatures, heavy rainfall.

C. cold and humid

D. hot and dry

Answer: A



77. 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

Answer: D



78. Which of the following 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 for swimming, Gills for respiration

Answer: A



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79. Which of the following has a tropical climate ?

A. Kashmir

B. Kerala

C. Rajasthan

D. Assam

Answer: B



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80. Which of the following is not a type of climate ?

A. polar climate

B. equator climate

C. desert climate

D. tropical climate

Answer: B



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81. If the 'minimum' and 'maximum' humidity values on four different days are as given below, which one is most likely to be a rainy day?

A. 30%,75%

B. 43%,96%

C. 29%,82%

D. 26%,84%

Answer: B



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82. The most outstanding feature of a lion-tailed macaque is its :

- A. silver-white mane
- B. sticky pads on feet
- C. long and large beak
- D. ability to change colour

Answer: A



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83. A climate which is neither very hot in summer nor very cold in winter is called :

A. polar climate

B. desert climate

C. temperate climate

D. tropical climate

Answer: C



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84. An animal which is adapted to get food from the fruits attached at the end of even very thin branches is :

A. Red-eyed frog

B. Monkey

C. Lion-tailed macaque

D. Toucan

Answer: D



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85. Tropical climate is the one which is:

A. neither very hot nor very cold

B. very hot and humid

C. very hot and dry

D. very cold and dry

Answer: B



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86. The animal having sticky pads, on its feet which help it to climb easily on trees is :

A. toucan

B. red-eyed frog

C. siberian crane

D. reindeer

Answer: B



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87. If the region of a country is nearer to the equator, it will have a:

A. temperate climate

B. polar climate

C. desert climate

D. tropical climate

Answer: D



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88. The red-eyed frog lives:

A. in ponds

B. on trees

C. in lakes

D. on mountains

Answer: B



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89. The climate of an Indian State is said to be hot and humid. This state is likely to be:

A. Rajasthan

B. Kerala

C. Kashmir

D. Haryana

Answer: B



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90. Which of the following does not live in tropical rainforests?

A. leopard

B. gorilla

C. reindeer

D. lizard

Answer: C



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91. Which of the following country does not have tropical rainforests?

A. India

B. Brazil

C. Malaysia

D. Canada

Answer: D



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92. One of the most common migratory bird which comes from siberia is

A. crow

B. crane

C. toucan

D. parakeet

Answer: B



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93. Which of the following have a thick layer of fat under the skin?

Parrot , Polar bear ,Elephant ,Penguin

A. A and B

B. B and C

C. A and D

D. B and D

Answer: D



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94. Which of the following does not live in polar regions?

A. reindeers

B. seals

C. toucans

D. penguins

Answer: C



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95. The mammal which is known to migrate seasonally in search of favourable climatic conditions and food is:

A. Siberian crane

B. Reindeer

C. African elephant

D. toucan

Answer: B



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96. Some of the adaptations in animals are given below:

Which of these adaptations are:

for polar regions?

81. Some of the adaptations in animals are given below :

- | | |
|---------------------|-----------------------------|
| (a) White fur | (b) Diet heavy on fruits |
| (c) Strong tails | (d) Layer of fat under skin |
| (e) Big feet | (f) Sticky pads on feet |
| (g) Thick skin | (h) Strong sense of smell |
| (i) Need to migrate | (j) Long and large beak |



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97. Some of the adaptations in animals are given below:

Which of these adaptations are:

for tropical rainforests?

81. Some of the adaptations in animals are given below :

- | | |
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| (a) White fur | (b) Diet heavy on fruits |
| (c) Strong tails | (d) Layer of fat under skin |
| (e) Big feet | (f) Sticky pads on feet |
| (g) Thick skin | (h) Strong sense of smell |
| (i) Need to migrate | (j) Long and large beak |



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98. The bird X moves from Siberia to places like Y in Rajasthan and Z in Haryana in India during a particular season. It stays in India for a few months and then goes back.

Name the bird X.



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99. The bird X moves from Siberia to places like Y in Rajasthan and Z in Haryana in India during

a particular season. It stays in India for a few months and then goes back.

What is the place Y?



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100. The bird X moves from Siberia to places like Y in Rajasthan and Z in Haryana in India during a particular season. It stays in India for a few months and then goes back.

What is the place Z?



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101. The bird X moves from Siberia to places like Y in Rajasthan and Z in Haryana in India during a particular season. It stays in India for a few months and then goes back.

What general name is given to birds like X?



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102. The bird X moves from Siberia to places like Y in Rajasthan and Z in Haryana in India during a particular season. It stays in India for

a few months and then goes back.

Name the season during which bird X moves from Siberia to India.



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103. The animal P having white colour lives in arctic region whereas another animal Q having black and white colour lives in Antarctic region. Both these animals have thick layer of fat under the skin.

what could animal P be?



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104. The animal P having white colour lives in arctic region whereas another animal Q having black and white colour lives in Antarctic region. Both these animals have thick layer of fat under the skin.

what could animal Q be?



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105. The animal P having white colour lives in arctic region whereas another animal Q having black and white colour lives in Antarctic region. Both these animals have thick layer of fat under the skin.

In what types of surroundings do these animals live?



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106. The animal P having white colour lives in arctic region whereas another animal Q having black and white colour lives in Antarctic region. Both these animals have thick layer of fat under the skin.

What is the function of thick layer of fat under the skin of these animals?



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107. The animal P having white colour lives in arctic region whereas another animal Q having black and white colour lives in Antarctic region. Both these animals have thick layer of fat under the skin.

Which of these animals could be called a bird?



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108. The two animals A and B are called big cats. The animal A has yellow-brown colour

with black stripes whereas animal B has just yellow-brown colour.

What could animals A be ?



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109. The two animals A and B are called big cats. The animal A has yellow-brown colour with black stripes whereas animal B has just yellow-brown colour.

What could animals B be ?



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110. The two animals A and B are called big cats. The animal A has yellow-brown colour with black stripes whereas animal B has just yellow-brown colour.

Name the type of habitat where these animals usually live.



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111. The two animals A and B are called big cats. The animal A has yellow-brown colour

with black stripes whereas animal B has just yellow-brown colour.

Where are the eyes of these animals located and what advantage do they confer to the animals ?



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112. The two animals A and B are called big cats. The animal A has yellow-brown colour with black stripes whereas animal B has just yellow-brown colour.

State whether these animals are carnivores or herbivores.



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113. The two animals X and Y live in tropical rainforests. The animal X is a kind of bird which is adapted to obtain even those fruits from trees which are attached at the end of very thin branches. On the other hand, animal Y is a kind of frog which lives on trees. It has

sticky pads on feet so as to climb the trees.

What could X be ?



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114. The two animals X and Y live in tropical rainforests. The animal X is a kind of bird which is adapted to obtain even those fruits from trees which are attached at the end of very thin branches. On the other hand, animal Y is a kind of frog which lives on trees. It has sticky pads on feet so as to climb the trees.

Name the adaptation in X which helps it to obtain fruits even from the ends of very thin branches.



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115. The two animals X and Y live in tropical rainforests. The animal X is a kind of bird which is adapted to obtain even those fruits from trees which are attached at the end of very thin branches. On the other hand, animal Y is a kind of frog which lives on trees. It has

sticky pads on feet so as to climb the trees.

What could Y be ?



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116. The two animals X and Y live in tropical rainforests. The animal X is a kind of bird which is adapted to obtain even those fruits from trees which are attached at the end of very thin branches. On the other hand, animal Y is a kind of frog which lives on trees. It has sticky pads on feet so as to climb the trees.

Name an adaptation in Y which helps in its protection.



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