



BIOLOGY

BOOKS - ICSE

ADAPTATIONS IN PLANTS AND ANIMALS

**Check Your Progress Answer The Following
Questions**

1. Define habitat.



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2. What are hydrophytes?



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3. Name the terms used for

a. aquatic plants and

b. desert plants.



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4. Give any two examples of free-floating hydrophytes.



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5. Give any two examples of mesophytes.



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6. What is the habitat of a cactus plant?



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Check Your Progress Answer These Questions

1. What are the respiratory organs in aquatic animals?



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2. Which types of bones are present in birds?



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3. What is the function of the tail fin of a fish?



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Exercises Tick The Most Appropriate Answer

1. Air cavities are commonly found in these plants.

A. xerophytes

B. mesophytes

C. hydrophytes

D. none of the above

Answer:



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2. Which of the following features is seen in aquatic plants?

A. thick cuticle

B. well-developed root system

C. sunken stomata

D. aerenchyma tissue

Answer:



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3. Roots and stems show optimum development in

A. hydrophytes.

B. mesophytes.

C. xerophytes.

D. halophytes.

Answer:



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4. In xerophytes,

A. leaf surface is covered with thick cuticle.

B. both leaves and stems have a thick waxy coating.

C. stem surface is covered with thick cuticle.

D. none of the above

Answer:



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5. Bones are without bone marrow in

A. birds.

B. camel.

C. fish.

D. frog.

Answer:



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6. Animals that live on land have

A. pentadactyl (five digits) claws.

B. streamlined body.

C. forelimbs modified into wings.

D. gills for breathing.

Answer:



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7. The hump at the back of a camel contains

A. carbohydrates.

B. proteins.

C. fats.

D. minerals.

Answer:



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Exercises Fill In The Blanks

1. The body of _____ are adapted to conserve water and to absorb maximum water available in the soil.



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2. The trees growing in the mountains are _____ with sloping branches.



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3. Some fish have _____ to help in buoyancy.



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4. Animals that live on land show _____ locomotion.



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5. _____ are present in birds to provide additional strength during flight.



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Exercises True Or False

1. The habitat of an organism consists of both biotic and abiotic components.



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2. The ability of an organism to change for better adjustment with the environment is



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3. Adaptation includes changes only in the body structure of an animal.



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4. The desert plants that are adapted to cope with a dry and hot environment are called xerophytes.



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5. The body of mountain goat is covered with thick fur or thick skin to protect it from the cold.



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Exercises Differentiate Between

1. Differentiate between hydrophytes and mesophytes.



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2. aquatic animals and aerial animals.



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3. plants growing in mountains and plants growing in desert.



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Exercises Answer The Following In Short

1. Give one example of submerged and rooted hydrophytes.



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2. Write an adaptation in xerophytes.



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3. Which animal is called the ship of the desert? Why?



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4. What are aerial animals?



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5. How is the streamlined body of a bird helpful?



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Exercises Answer The Following In Detail

1. Define hydrophytes, mesophytes and xerophytes.



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2. Name the different types of hydrophytes.

Give one example of each.



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3. List down adaptations in reference to

leaves

mechanical and conducting tissue

roots and stem in mesophytes



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4. How is the body of a fish adapted to live in water?



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5. Write about adaptations in plants growing in the mountains.



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Exercises Group The Plants Under The Correct Column

1. Fill the following options in correct column

water hyacinth duckweed *Utricularia* *Typha* gulmohar
mustard rosewood *Acacia* cactus *Opuntia*

Hydrophytes	Mesophytes	Xerophytes

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Think And Answer

1. The submerged leaves of aquatic plants are thin and ribbon-like. Why?

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2. The leaves of aquatic plants have a waxy coating. Why?



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3. State True or False.

The leaves of Opuntia are modified into spines.



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4. Stomata sunken in the substomatal cavities are called Sunken stomata which occur in



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5. The body of aquatic animals is streamlined.

Why?



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