



BIOLOGY

BOOKS - FULL MARKS BIOLOGY (TAMIL ENGLISH)

ENVIRONMENTAL SCIENCE

Exercise I Choose The Correct Answer

1. All the factors of biosphere which affect the ability of organisms to survive and reproduce

are called as

A. biological factors

B. abiotic factors

C. biotic factors

D. physical factors

Answer:



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2. The ice sheets from the north and south poles and the icecaps on the mountains, get converted into water vapour through the process of....

- A. evaporation
- B. condensation
- C. sublimation
- D. infiltration

Answer:



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3. The atmospheric carbon dioxide enters into the plants through the process of

A. photosynthesis

B. assimilation

C. respiration

D. decomposition

Answer:



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4. Match the Following:

S. No.	Microorganism	S. No.	Role Played
1.	<i>Nitrosomonas</i>	a	Nitrogen fixation
2.	<i>Azotobacter</i>	b	Ammonification
3.	<i>Pseudomonas species</i>	c	Nitrification
4.	Putrefying bacteria	d	Denitrification



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Exercise II Match The Following

1. Increased amount of in the atmosphere, results in greenhouse effect and global

warming

A. carbon monoxide

B. sulphur dioxide

C. nitrogen dioxide

D. carbon dioxide

Answer:



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Exercise Iii State Whether The Statements Are True Or False Correct The False Statements

1. Nitrogen is a greenhouse gas.



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2. Poorly developed root is an adaptation of mesophytes,



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3. Bats are the only mammals that can fly



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4. Earthwonnns use the remarkable high frequency system called echoes.



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5. Aestivation is an adaptation to overcome cold condition.



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1. What are the two factors of biosphere?



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2. How do human activities affect nitrogen cycle?



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3. What is meant by adaptation?





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4. What are the challenges faced by hydrophytes in their habitat?



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5. Why is it important to conserve water?



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6. List some of the ways in which you could save water in your home and school?



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7. What are the uses of recycled water?



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8. What is IUCN? What is the vision of IUCN?



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Exercise V Answer In Detail

1. Describe the processes involved in the water cycle?



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2. Explain with the help of flow chart the theory of Evolution.



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3. List out the adaptations of xerophytes?



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4. How does a bat adapt itself to its habitat?



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5. What is water recycling? Explain the conventional wastewater recycling treatment?





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Exercise Vi Give Reason

1. Roots grow very deep and reach the layers where water is available. Which type of plants develops the above adaptation? Why?



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2. Why streamlined bodies and presence of setae is considered as adaptations of

earthworm?



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3. Why is it impossible for all farmers to construct pond in their fields?



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Additional Questions | Choose The Correct Answer

1. includes plants, animals and all other living organisms.

A. Physical factors

B. biotic factors

C. abiotic factors

D. biological factors

Answer:



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2. ... is a type of vapourization, where liquid is converted to gas before reaching its boiling point.

- A. Evaporation
- B. Sublimation
- C. Condensation
- D. Transpiration

Answer:



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3. When there is change in wind or temperature, clouds combine to make bigger droplets, and pour down as

A. percolation

B. infiltration

C. precipitation

D. run off

Answer:



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4. is the changing of gas phase into liquid phase.

A. Transpiration

B. Percolation

C. Sublimation

D. Condensation

Answer:



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5. During microorganisms must be separated from treated waste water by sedimentation.

- A. water recycling
- B. primary treatment
- C. secondary treatment
- D. tertiary treatment

Answer:



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6. Which of the following is not an adaptation of xerophytes?

A. well developed root system

B. store water

C. small sized leaves with waxy coating

D. straight and branched stems

Answer:



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7. helps earthworm to live in narrow burrows underground and easy penetration into the soil.

A. Aestivation

B. Setae

C. Stream-lined body

D. Skin

Answer:



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8. is a state of inactivity in which the body temperature drops with a lowered metabolic rate during winter.

- A. Hibernation
- B. Nocturnality
- C. Echolocation
- D. Aestivation

Answer:



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9. provides the primary nutrient important for the survival of all living organisms,

- A. Water cycle
- B. Nitrogen cycle
- C. Carbon cycle
- D. Oxygen cycle

Answer:



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10. is the process by which plants absorb nitrate ions and use them for making organic matter.

A. Ammonification

B. Nitrification

C. Nitrogen assimilation

D. Denitrification

Answer:



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Additional Questions Ii Match The Following

1. Match the Following:

S. No.	Column A		Column B
1.	Water recycling	a	Living factors
2.	Abiotic	b	Management of water resources
3.	Water conservation	c	Non-living factors
4.	Biotic	d	Landscape irrigation



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Additional Questions Iii State Whether True Or False If False Write The Correct Statement

1. Water cycle is an essential component of proteins, DNA and chlorophyll.



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2. Well developed root is an adaptation of hydrophytes.



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3. Nocturnality is a useful adaptation for them, as flight requires a lot of energy during day.



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4. is a state of inactivity in which the body temperature drops with a lowered metabolic rate during winter.



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5. The ability to tolerate temperature depends on the surrounding moisture in the environment.



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Additional Questions Iv Answer In Brief

1. What are the types of biogeochemical cycles?



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2. Write the human impacts on carbon cycle.



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3. Define 'Cindrella of the plant kingdom'.



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4. What are the strategies to support water conservation?





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5. Write a short note on water conservation.



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6. What are the limitations of farm ponds.



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7. Why earthworm is called as farmer's friend?





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8. Explain nocturnality in Bat and Earthworm.



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9. Why is Water Hyacinth responsible for the death of aquatic plants and animals?



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10. What is vermicompost?



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11. Describe methods of water conservation in agriculture.



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Additional Questions V Answer In Detail

1. Explain Nitrogen cycle with a diagram.



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2. Write in detail the adaptations of bat.



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3. Write the advantages of farm ponds.



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4. Write in detail about IUCN.



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