



BIOLOGY

BOOKS - BETTER CHOICE PUBLICATION

ECOSYSTEM

Very Short Answer

1. Which interaction is shown by the epiphytic plants



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2. Define an ecotype.



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3. What do you understand by the term biota



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4. Name two free floating hydrophytes.



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5. Define Ecotone



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6. What are Benthos



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7. An orchid plant is growing on the branch of mango tree. How do you describe this

interaction between the orchid and the mango tree?



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8. What is the ecological principle behind the biological control method of managing with pest Insects?



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9. What is 10% law?



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10. What ecological pyramid is always straight



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11. What is an anthropogenic ecosystem



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12. What is an eco-system?



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13. What is the first trophic level of any ecosystem?



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14. What is hydrosere?



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15. Who are the primary consumers in the food chain?



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16. What is the primary source of energy in Detritus food chain?



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17. Name the global sink of carbondioxide.



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Short Answer Question

1. What are hydroponics?



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2. How does the forest help to maintain the climate



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3. Give the ecological adaptations of succulents?



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4. What is the difference between climate and weather?



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5. What is retrogressive succession



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6. What is nutrient cycling? Discuss the significance of nutrient cycling. Discuss three aspects of nutrient cycles.



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7. What is Ecological efficiency ? Write its significance.



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8. Why is the term Cycle used for the movement of matter but flow for energy.



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9. Explain how predator is beneficial in the long run.



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10. What is meant by Net primary Productivity



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11. Why is the length of a food chain in an ecosystem limited to 3-4 trophic levels?



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12. Explain any two adaptations in mangroves to the conditions prevailing in sundarbans



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13. Comment upon the stability of a community.



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14. Explain the concept of pyramid of biomass.



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15. Explain the concept of pyramid of energy.



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16. Differentiate between NPP and GPP



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17. Explain the concept of pyramid of numbers.



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18. What are epiphytes? Give two examples.



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19. What are scavengers and parasitism explain with example?



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20. Explain importance of decomposers in an ecosystem.



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21. Outline salient features of Nitrogen cycle in an ecosystem.



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22. Differentiate primary productivity and secondary productivity.



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23. Explain role of consumers in an ecosystem.



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Short Answer Type Questions li

1. Define ecological succession. Give four differences between seral stage and climax stage.



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2. Give major characteristics of the desert biome.



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3. How is energy related to biomass.



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4. All the solar energy trapped by green plants ultimately returns to the environment ?

Comment on this statement.



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5. Explain the meaning of 10% law.



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6. Differentiate between grazing food chain and detritus food chain.



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7. Define the term population dynamics and Biotic potential.



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8. What are artificial Ecosystems ? Name two man made ecosystems.



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9. When does Secondary Succession end



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10. Explain why photosynthesis is considered the most important process in the biosphere.





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11. Describe the characteristics of Tropical rain forests.



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12. What is meant by Proto Cooperation?
Describe any two examples of it.



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13. Why are wet lands considered Ecologically important



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14. What are Decomposers? What is their functions in Ecosystem



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15. What is Primary productivity. Give the range of primary productivity in different ecosystems

of the words



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16. Describe the process of decomposition



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17. Define food web. Write its two characteristics. What is 10% Law?



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18. Define ecological succession. List any two characteristics of it. Distinguish between primary and secondary succession.



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19. Write six major characteristics of Tundra biome.



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20. Write six major characteristics of temperate grassland.



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21. Draw the flow chart of carbon-cycle.



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22. Define ecological pyramid and describe pyramids of number and biomass.



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23. Give a graphical representation of phosphorous cycle.



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24. Define ecosystem services. List examples of eco-system services.



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Long Answer Type Questions

1. What is ecology ? Briefly Explain four majors abiotic factors of environmental.



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2. What is ecosystem? Write about biotic components of ecosystem



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3. What is food chain? Explain briefly grazing food chain and detritus food chain.



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4. What is a biome? Explain forest biome along with its importance.



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5. Explain briefly the role of producers In an ecosystem.



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6. Name two man-made ecosystems.



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7. Describe the carbon cycle in details with the suitable flow chart.



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8. Explain the nitrogen cycle with suitable flow chart.



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9. Discuss various stages occurring in lithosere formation.



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10. Discuss various types of ecological pyramids with diagrams.



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11. Discuss various stages occurring in a hydrosere formation.



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12. What are ecological pyramids? Discuss its types. Which pyramid is always upright.



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13. What is nutrient cycling? Discuss the significance of nutrient cycling. Discuss three aspects of nutrient cycles.



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14. What is an ecological succession ?



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15. Name two types of ecological successions.



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16. Explain the process of succession.



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17. Explain carbon cycle in nature with suitable flow chart.



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18. What do you mean by succession ? Give one difference between Primary and Secondary succession. Describe process of succession on bare rock.



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19. Explain phosphorus cycle with suitable flow chart. Why phosphorus cycle is an imperfect cycle ?



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Most Expected Questions

1. What is detritus?



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2. What are detritivores



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3. Expand PAR



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4. What is the productivity



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5. Define biomass



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6. What are microphytes



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7. Among the cructose foliose and fruticose lichens which one is a pioneer species



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8. What is common to earthworm, mushroom, soil mites and dung beetle in an ecosystem?



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9. What is standing state? Coin the term for vertical distribution of vegetation in a forest.



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10. Define lithosere.



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11. Explain briefly food web.



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12. Distinguish between: Food chain and Food web



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13. Differentiate between standing crop and standing state



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14. Differentiate between grazing food chain and detritus food chain.



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15. Describe the components of an ecosystem.



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16. Define decomposition and describe the processes and products of decomposition.



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17. Give an account of energy flow in an ecosystem.



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18. Define ecological pyramid and describe pyramids of number and biomass.



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19. Write important features of a sedimentary cycle In an ecosystem.



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20. What Is the difference between gaseous and sedimentary type of nutrient cycle

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21. The input and output of nutrient.% maintain balance in an ecosystem. How? List few factors responsible for causing unbalanced nutrient cycle and ecosystem

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22. Explain the process of decomposition and give products of decomposition.



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23. Write two examples where man has interfered in ecosystems



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24. The two basic components of an ecosystem are



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25. Where are abiotic components present



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26. List the abiotic components of an ecosystem.



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27. What are various climatic factors important for survival and continuation of an ecosystem?



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28. Define the terms (i) Productivity, (ii) Reserve pool and (iii) Cycling pool.



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29. Differentiate between a detritivore and a decomposer. Give an example of each.



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30. Given an account of factors affecting rate of decomposition



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