



BIOLOGY

BOOKS - VIKRAM PUBLICATION (ANDHRA PUBLICATION)

ECOLOGY AND ENVIRONMENT

Very Short Answer Type Questions

1. The term "ecology" was first used by



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2. What is an ecological population ?



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3. Define population and community.



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4. What is an eco-system?



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5. Distinguish between eco-system and biome.



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6. What is biome? Name any two biomes you studied.



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7. What is meant by ecosphere ?



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8. Explain the difference between the 'nich' of an organism and its 'habitat'.



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9. A population has more genetically similar organisms than-an biotic community. , Justify the statement.



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10. The fish belongs to the species *Catla catla* living at a given time? How do the fish living in Antarctic waters manage to keep their body fluids from freezing ?



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11. How does your body solve the problem of altitude sickness,' when you ascend tall mountains ?



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12. What is the effect of light on body pigmentation ?



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13. Distinguish the terms phototaxis and photokinesis.



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14. What are circadian rhythms?



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15. What is photoperiodism?



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16. Distinguish between photoperiod and critical photoperiod.



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17. Mention the advantages of some UV rays to us.



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18. What is cyclomorphosis ? Explain its importance in Daphnia.



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19. What are 'regulators' ?



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20. What are conformers?



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21. Define commensalism. Give one example.



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22. Define mutualism. Give one example.



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23. Define amensalism. Give one example.



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24. What is meant by interspecific competition
? Give one example



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25. What is camouflage ? Give its significance.



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26. Gause's Principle explains



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27. Fungus in Association with A is called lichen and in association with B is called

mycorrhiza and A & B respectively



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28. Distinguish between lotic and lentic habitats.



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29. What is zone of compensation in an aquatic eco system?



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30. Distinguish between phytoplankton and zooplankton.



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31. Distinguish between neuston and nekton.



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32. What is periphyton. ?



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33. Man made ecosystems are



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34. What is meant by osmotrophic nutrition ?



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35. Explain the process of leaching of alumina from bauxite.



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36. What is PAR ?



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37. What is the percentage of PAR, in the incident solar radiation ?



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38. Define Entropy .



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39. What is standing crop ?



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40. Explain the terms GPP, NPP ?



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41. Distinguish between Upright and inverted pyramid



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42. Distinguish between Litter and detritus



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43. Distinguish between Primary and secondary productivity



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44. Gases responsible for acid rain are



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45. What is BOD ?



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46. What is biological magnification ? Will the level of this magnification be different at different levels of the ecosystem ?



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47. Why are incinerators used in hospitals?



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1. Considering the benefits of a constant internal environment to the organism we tend to ask ourselves why the conformers had not evolved to become regulators ?



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2. The individuals who have fallen through the ice and been submerged under cold water for long periods can sometimes be revived - explain.



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3. What is summer stratification ? Explain.



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4. What is the significance of stratification in lakes ?



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5. Explain Vant' Hoff rule.



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6. Unlike mammals the reptiles cannot tolerate environmental fluctuations in temperature. How do they adapt to survive in desert conditions ?



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7. How do terrestrial animals protect themselves from the danger of dehydration of bodies?



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8. How do marine animals adapt to hypertonic sea water?



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9. Discuss the various type of adaptations in fresh water animals.



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10. Compare the adaptations of animals with fresh water and sea waer mode of life.



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11. Distinguish between euryhaline and stenohaline animals.



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12. Many tribes living in high altitude of Himalayas normally have higher red blood cell count (or) total haemoglobin than the people living in the plains. Explain ?



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13. 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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14. Predation is not an association. Support the statement.



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15. What is the ecological principle behind the biological control method of managing with pest insects?



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16. Discuss competitive release



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17. Write a short note on the parasitic adaptations.



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18. Explain brood parasitism with a suitable example



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19. How do predators act as biological control ?



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20. Write notes on the structure and functioning of an ecosystem.



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21. Explain the different types of aquatic ecosystems ?



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22. Explain the different types of terrestrial ecosystems.



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23. Discuss the main reason for the low productivity of ocean.



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24. Explain the terms saprotrophs detritivores and mineralizers.



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



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26. Write a note on DFC. Give its significance in a terrestrial ecosystem.



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27. What is primary productivity ? Give a brief description of the factors that affect primary productivity.



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28. Define ecological pyramids and describe with examples pyramids of number and biomass.



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29. What are the deleterious effects of depletion of ozone in the stratosphere?



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30. Describe 'Green House' Effect.



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31. Discuss briefly the

Greenhouse gases



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32. Discuss briefly the

Noise pollution



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33. Discuss briefly the

Organic farming



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34. Discuss briefly the

Municipal solid wastes



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35. Discuss the causes and effects of global warming. What measures need to be taken to control global warming?



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36. Write critical notes on the following:

(a) Eutrophication

(b) Biological magnification

(c) Groundwater depletion and ways for its replenishment



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**37. Write critical notes on the
Eutrophication**



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Long Answer Questions

**1. Write an essay on temperature as an
ecological factor**



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2. Write an essay on water as an ecological factor.



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3. Describe lake as an ecosystem giving examples for the various zones and the biotic components in it.



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4. Describe different types of food chains that exist in an ecosystem.



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



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6. List out the major air pollutants and describe their effects on human beings.



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7. Water pollution



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Important Questions

1. Define the term "ecology" and its branches.



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2. Define a community.



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13. Distinguish between lotic and lentic habitats.



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14. What is periphyton. ?



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15. What is PAR ?



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16. Define entropy.



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17. Distinguish between upright and inverted ecological pyramids.



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18. Distinguish between litter and detritus



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19. Distinguish between primary and secondary productivity.



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20. Which air pollutants are mainly responsible for acid rains?



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21. What is BOD?



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



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45. What are the causes of water pollution and suggest measures for control of water pollution ?



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