

Class: 12
Subject: Biology
Topic: Ecosystem
No. of Questions: 25

- Q1. What is primary productivity? Give brief description of factors that affect primary productivity?
- Q2. Define decomposition and describe the processes and products of decomposition.
- Q3. Write important features of sedimentary cycle in an ecosystem.
- Q4. State what does 'standing crop' of a trophic level represent.
- Q5. What is blubber?
- Q6. What are coral reefs?
- Q7. What is nonbiological nitrogen fixation?
- Q8. Which regions of the biosphere lack life?
- Q9. List the processes involved in nitrogen cycle.
- Q10. Industries cause rise as well as fall in the temperature of biosphere. Explain.
- Q11. Differentiate between a detritivore and a decompose giving an example of each.
- Q12. State the difference between the first trophic levels of detritus food chain and grazing food chain.
- Q13. Name the pioneer and the climax species in a water body. Mention the changes observed in the biomass and the biodiversity of the successive seral communities developing in the water body.
- Q14. Climax stage is achieved quickly in secondary succession as compared to primary succession? Why?
- Q15. "It is possible that a species may occupy more than one trophic level in the same ecosystem at the same time." Explain with the help of one example.
- Q16. Define an ecosystem. Give a few instances of an ecosystem.

- Q17. Name the pioneer species on a bare rock. How do they help in establishing the next type of vegetation? Mention the type of climax community that will ultimately get established.
- Q18. Explain why ecological succession will be faster in a forest devastated by fire than on a bare rock? Also, compare succession in case of an abandoned land after floods with that on a bare rock?
- Q19. Why are reducers or decomposers considered crucial and essential components of an ecosystem? Explain.
- Q20. One day, Ganesh asked his father why is government so much worried about decreasing population of tigers? His father replied that it is important to save the tigers as they are at the end of food chains in forest ecosystem and play a role to keep the biotic components in ecosystem in balance.
Read the above passage and Sol.wer the following questions:
(i) What is a food chain?
(ii) What is an ecosystem?
(iii) What value is displayed by Ganesh's father?
- Q21. What is true of ecosystem?
a) Primary consumers are least dependent upon producers
b) Primary consumers out number producers
c) Producers are more than primary consumers
d) Secondary consumers are the largest and most powerful
- Q22. In an ecosystem, which one shows one way passage
a) Nitrogen
b) Carbon
c) Potassium
d) Free energy
- Q23. Upper part of sea/ aquatic ecosystem contains
a) Plankton
b) Nekton
c) Benthos
d) Plankton and Nekton

- Q24. Pyramid of numbers in a grassland/ tree ecosystem is pyramid of numbers in grass land
- a) Always inverted
 - b) Always upright
 - c) Both a) and b)
 - d) Spindle shaped
- Q25. Food chain in which microorganisms breakdown the food formed by primary producers is
- a) Parasitic food chain
 - b) Detritus food chain
 - c) Consumer food chain
 - d) Predator food chain

askITians