

Board – CBSE

Class – 12

Topic – Ecosystem

- Decomposition is faster if detritus is rich in nitrogen and water soluble substance like sugars. When is the decomposition process slower?
- If we count the number of insects on a tree and number of small birds depending on those insects as also the number of larger birds eating the smaller, what kind of pyramid of number would we get?
- Differentiate between Sere and Seral communities.
- Who are generally the pioneer species in a Xerarch succession and in a Hyararch succession?
- Which metabolic process causes a reduction in the Gross Primary Productivity?
- What percentage of photosynthetically active radiation is captured by plants?
- Name the pioneers of primary succession in water.
- Name any two man – made ecosystem?
- Define stratification?
- Name the ecological pyramid that is always upright?
- Study the table given below and fill the blanks from 'A' to 'F'.

S.No	Component of the Ecosystem	Position of the trophic level	Organism present in the Food chain
1.	E	Fourth trophic level	F
2.	Secondary consumer	D	Bird, fish, wolf.
3.	B	Second trophic level	C
4.	Primary producer	A	Phytoplankton, grass, tree.

- In the pyramid of biomass drawn below, name the two crops (i) one which is supported (ii) one which supports in which ecosystem is such a pyramid found?



- Why is secondary succession faster than primary succession?
- Distinguish between upright & inverted pyramids?
- Explain with an example, why is the length of a food chain in an ecosystem generally limited to 3-4 trophic level?

16. What is meant by ecological succession? Describe the different stages in which succession occurs?
17. What is meant by ecological pyramid? With the help of one example each, show that pyramid of number can be both upright as well as inverted.
18. Describe the components of an ecosystem?
19. "Energy flow in an ecosystem is always unidirectional justify the statement.
20. Differentiate between Production & decomposition?
21. Differentiate between primary productivity & secondary productivity?
22. What ecological principles are derived from the study of food chains?
23. List the factors on which pioneer species depend during secondary succession?
24. The productivity of ecosystem increases from polar regions towards tropics. Why?
25. Mention some of the ecological services provided by forests?
26. Differentiate between food chain & food web?
27. With the help of a diagram, represent the energy flow through different trophic level.
28. What is pyramid of biomass? Represent the pyramid of biomass in
  - (i) grassland ecosystem
  - (ii) aquatic ecosystem.
29. Represent schematically & describe the phosphorus cycle in an ecosystem?
30. Represent schematically & describe carbon cycle in ecosystem?