

**TOPIC : ECOSYSTEM**

**ONE MARK QUESTION**

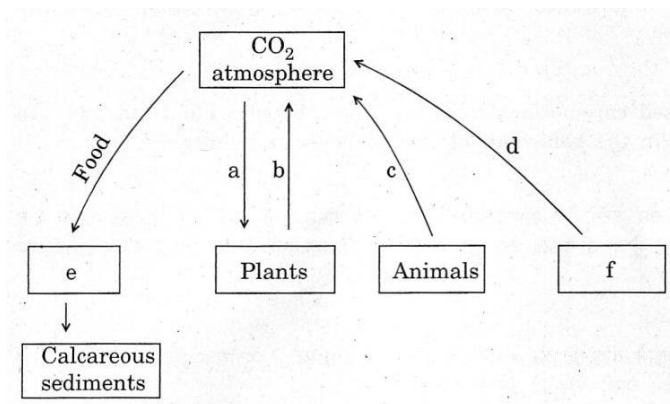
- 1 Differentiate between a detritivore and a decomposer giving an example of each.
- 2 Expand PAR
- 3 Define climax community.
- 4 Identify the pioneer species of xerarch and hydrarch succession.

**TWO MARK QUESTIONS**

- 5 List the steps involved in decomposition process.
- 6 What is ecological succession? Write different stages of xerarch succession.
- 7 What is primary productivity? How is it different from Net Primary Productivity.
- 9 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.

### 3 MARK QUESTIONS

- 10 Name the pioneer species on a barren rock. How do they help in establishing the next type of vegetation? Mention the type of climax community that will ultimately get established?
- 11 Construct an ideal pyramid of energy when 1,00,000 joules of sunlight is available. Label all its trophic levels.
- 12 Construct a pyramid of biomass starting with phytoplanktons. Label 3 trophic levels. Is the pyramid upright or inverted? Why?
- 13 Draw and complete the following model of carbon cycle filling a, b, c, d, e and f.



- 14 Describe phosphorous cycle.