

QB365

Important Questions - Our Environment

10th Standard CBSE

Science

Reg.No. :

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Time : 01:00:00 Hrs

Total Marks : 50

**Section - A**

- 1) Which of the following constitute a food-chain? 1  
(a) Grass, wheat and mango (b) Grass, goat and human (c) Goat, cow and elephant  
(d) Grass, fish and goat
- 2) In the given food chain, suppose the amount of energy at fourth trophic level is 5 kJ, what will be the energy available at the producer level? 1  
Grass → Grasshopper → Frog → Snake → Hawk  
(a) 5 kJ (b) 50 kJ (c) 500 kJ (d) 5000 kJ
- 3) Accumulation of non-biodegradable pesticides in the food chain in increasing amount at each higher trophic level is known as 1  
(a) Eutrophication (b) Pollution (c) Bio magnification (d) Accumulation
- 4) Flow of energy in an ecosystem is always 1  
(a) Unidirectional (b) Bidirectional (c) Multi directional (d) No specific direction
- 5) Which of the following limits the numbers of trophic levels in a food chain? 1  
(a) Decrease in energy at higher trophic levels (b) Deficient food supply (c) Polluted air (d) Water
- 6) The decomposers in an ecosystem 1  
(a) Convert inorganic material, to simpler forms (b) Convert organic material to inorganic forms  
(c) Convert inorganic materials into organic compounds (d) Do not breakdown organic compounds
- 7) What is the important function of presence of ozone in earth's atmosphere? 1
- 8) Why are green plants called 'producers'? 1
- 9) Why are some substances non-biodegradable? 1
- 10) Which of the following will have the maximum concentration of harmful chemicals in its body? 1  
Peacock, Frog, Grass, Snake, Grasshopper.

**Section - B**

- 11) What will happen if we kill all the organisms in one trophic level? 2
- 12) Why are crop fields known as artificial ecosystems? 2
- 13) Aquarium requires regular cleaning whereas lakes normally do not. Why? 2
- 14) Describe how decomposers facilitate recycling of matter in order to maintain balance in the ecosystem. 2
- 15) What are the various steps in a food chain called? 2

- 16) What will happen if all the carnivores are removed from the earth? 2
- 17) Give reason to justify the following: 2
- (i) The existence of decomposers is essential in a biosphere.
  - (ii) Flow of energy in a food chain is unidirectional.
- 18) Explain the different trophic level in an ecosystem by giving examples in pond and grassland. 2
- 19) Define biological magnification with an example. 2
- 20) Give any two ways in which biodegradable substances affect the environment. 2

**Section - C**

- 21) Suggest any four activities in daily life which are eco-friendly. 5
- 22) Give two differences between food chain and food web. 5
- 23) (a) What is 'environmental pollution'? 5
- (b) Distinguish between biodegradable and non-biodegradable pollutants.
  - (c) Choose the biodegradable pollutants from the list given below:  
Sewage, DDT, radioactive waste, agricultural waste.
- 24) (a) What is an ecosystem? List its two main components. 5
- (b) We do not clean ponds or lakes, but an aquarium needs to be cleaned regularly. Explain.

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