

Chapter- 4.

ECOSYSTEMS.

Section A (One-mark questions)

Multiple Choice Questions:

1. Ecosystem contains

- (a) producers
- (b) consumers
- (c) decomposers
- (d) all the above

2. Which of the following ecosystems has highest gross primary productivity?

- (a) grasslands
- (b) coral reefs
- (c) mangroves
- (d) rainforest

3. Part of the earth that inhabits living organism is called

- (a) biome
- (b) biotrophy
- (c) biosphere
- (d) biodata

4. The pyramid of numbers in grassland ecosystem will be

- (a) linear
- (b) upright
- (c) irregular
- (d) inverted

5. The pyramid of energy is

- (a) always upright

(b) always inverted

(c) both upright and inverted

(d) none of the above

6. The planktonic forms of plants are

(a) autotrophs

(b) heterotrophs

(c) chemotrophs

(d) insectivorous types

7. A community is

(a) a collection of plants and animals

(b) organisms living in a habitat

(c) autotrophs and heterotrophs

(d) web of life

8. Ecosystem has two components

(a) plants and animals

(b) weeds and trees

(c) biotic and abiotic

(d) frogs and mentions

9. The organisms at the base of food chain are

(a) herbivores

(b) photosynthetic plants

(c) saprophytic plants

(d) carnivores

10. In abiotic components of an ecosystem which of the following occurs

(a) flow of energy

(b) cycling of materials

(c) consumers

(d) flow of energy and cycling of material

11. Which of the following is a correct sequence of food chain?

(a) fallen- leaves- bacteria- insect- larvae- birds

(b) phytoplankton – zooplankton- fish

(c) grasses-fox-rabbit

(d) grasses-chamelion-insects-birds

Q12. Which of the following groups contain only biodegradable items?

(a) Grass, flowers and leather

(b) Grass, wood and plastic

(c) Fruit-peels, cake and lime-juice

(d) Cake, wood and grass

Q13. Which of the following constitute a food-chain?

(a) Grass, wheat and mango

(b) Grass, goat and human

(c) Goat, cow and elephant

(d) Grass, fish and goat

Q14. Which of the following are environment-friendly practices?

(a) Carrying cloth-bags to put purchases in while shopping

(b) Switching off unnecessary lights and fans

(c) Walking to school instead of getting your mother to drop you on her scooter

(d) All of the above

Q15. What will happen if we kill all the organisms in one trophic level?

Q16. Will the impact of removing all the organisms in a trophic level be different for different trophic levels? Can the organisms of any trophic level be removed without causing any damage to the ecosystem?

17. What do you understand by the term ecosystem?

18. What is artificial ecosystem?

19. Differentiate between food chain and food web.

20. What are ecological pyramids?

21. Differentiate between upright pyramid and inverted pyramid.

22. What is the role of decomposers in the ecosystem?

23. What are the importances of decomposers?

24. What is a food chain?

25. What is food web?
26. Define the term 'biome'.
27. What are the significances of food Chains?
28. How do flows of energy occur in tropic level?
29. What are the characteristics of energy transfer in the biosphere?
30. Why is energy flow considered as unidirectional?
31. What is biomass?

Section B(Two marks questions)

32. What is biological magnification? Will the levels of this magnification be different at different levels of the ecosystem?
33. What are the problems caused by the non-biodegradable wastes that we generate?
- Q8. If all the waste we generate is biodegradable, will this have no impact on the environment?
34. Why is damage to the ozone layer a cause for concern? What steps are being taken to limit this damage?
35. Name any two biodegradable wastes.
36. Name any two non-biodegradable wastes.
37. Name two aquatic ecosystems.
38. Name two terrestrial ecosystems.
39. Give two examples of Artificial ecosystems.
40. Which is the ultimate source of the energy for an ecosystem?
41. Name the category of organism which feed the energy into the ecosystems.
42. Give the scientific term for organisms which feed directly on plants.
43. How much of organic matter is available at each trophic level to reach the next level?
44. Name the type of organisms that occupy (i) the first trophic level and (ii) the second trophic level.
45. Define Biomagnification.

46. Define the term (a) flora and (b) fauna.

47. List any three members each of the flora and fauna of tropical rain forests

Section B (Three marks questions)

48. Explain the role of decomposers in the environment?

49. We do not clean ponds or lakes, but an aquarium needs to be cleaned. Why?

50. Indicate the flow of energy in an ecosystem. Why is it unidirectional? Justify.

51. What are decomposers? What will be the consequence of their absence in an ecosystem?

52. Suggest any four activities in daily life which are eco-friendly.

53. Give two differences between food chain and food web.

54. Name four biotic and four abiotic components observed in this area.

55. Will this place be called a natural ecosystem or an artificial ecosystem? Give reasons for your answer.

56. Construct one food chain that operates in this area. Identify the producers, primary consumers, secondary consumers and tertiary consumers (if any) in the food chain.

57. Write any two points of environmental concern that have arisen in the area due to human intervention.

58. What are the different components of an ecosystem?

59. What are trophic levels? Give an example of a food chain and state the different trophic levels in it.

60. What is a food chain? Write a five-step food chain found in grass land with frog as one of the members. What will happen to organisms at different trophic levels if all the frogs are removed?

