

Chapter 15 (OUR ENVIRONMENT)

- 1) A food chain always starts with _
- 2) Ozone layer is damaged by ____
- 3) What limits the number of trophic levels in a food chain?
- 4) Name the main source of energy in self-sustaining ecosystem?
- 5) Write an aquatic food chain.
- 6) Which of the following is non - biodegradable:-
 - (a) Paper (b) wood (c) cloth (d) plastic
- 7) Which of the following is not a terrestrial ecosystem:-
 - (a) Forest (b) desert (c) Aquarium (d) grassland
- 8) What will happen if deer is missing in the given food chain?
Grass—> Deer—> Tiger
- 9) What is trophic level?
- 10) Write a fresh water food chain.
- 11) What do the decomposers in the ecosystem do?
- 12) What does the second trophic level consist of?
- 13) How much percentage of solar radiation is absorbed by all the green plants for the process of photosynthesis?
- 14) Which of the following belong to the same trophic level:-
*GRASSHOPPER, SPIDER, GRASS, HAWK, and LIZARD *
- 15) What is acid rain?
- 16) The ecosystem of earth is known as ____
- 17) Which of the following constitutes the food chain?
 - (a) Grass, goat and human
 - (b) Goat, Cow and elephant
 - (c) Grass, fish and goat
 - (d) Grass, wheat and mango
- 18) Flow of energy in an ecosystem is always ____
- 19) Name the main source of energy in any self-sustaining system.

20) Which of the following is not a part of biotic component of an ecosystem:-

*WATER, ALGAE, FISH, BACTERIA *

21) What limits the number of trophic levels in a food chain?

22) In natural ecosystems, decomposers include:-

- (a) Only bacteria and fungi
- (b) Only microscopic animals
- (c) Herbivores and carnivores
- (d) Both (b) and (c)

23) What does all living organisms of earth constitute?

24) What are the various steps of food chains called?

25) Which one is not biodegradable:- *PAPER, PLASTIC, SEWAGE *?

26) 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

27) Which of the following constitutes a food chain?

- (a) Grass, wheat and mango
- (b) Grass, goat and human
- (c) Goat, cow and elephant
- (d) Grass, fish and goat

28) Which of the following are environmental -friendly practices?

- (a) Carrying cloth- bag 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

29) Construct a food chain composing the following-

SNAKE, HAWK, RATS, PLANTS

30) Name the process that is a direct outcome of excessive burning of fossil fuels.

31) Using kulhads as disposable cups to serve tea in trains, proved to be a bad idea. Why?

- 32) Why is plastic not degraded by bacteria?
- 33) Give scientific terms for the following:-
- (a) The process of eating and being eaten
 - (b) The relationship between abiotic and biotic component
- 34) What is meant by environment? Name its components.
- 35) What is 10% law? Give an example
- 36) What is artificial ecosystem? Give two examples.
- 37) Energy transfer is said to be unidirectional whereas biochemical transfer is to be cyclic. Why?
- 38) Why is there a need to ban the use of polythene bags?
- 39) What is the significance of food chain?
- 40) How would you dispose the following wastes?
- (a) Domestic wastes like vegetable peels
 - (b) Industrial wastes
- 41) Why vegetarian food habit help us in getting more energy?
- 42) Write a food chain have two trophic levels.
- 43) Diagrammatically represent the transfer of energy in a food chain.
- 44) Consider the following food chains:-
- (a) *Plants → mice → snakes → hawks *
 - (b) *Plants → mice → hawks*
- If energy available at the producer level in both the food chains is 100J.
- In which case will hawks get more energy and how much?
- 45) What are the two functions of ecosystem?
- 46) What percentage of solar energy is trapped and utilized by plants?
- 47) What are the harmful effects of acid rain?
- 48) Differentiate between abiotic and biotic components of ecosystem.
- 49) Give any two methods reducing the problem of waste disposal.
- 50) Give reason "life on earth depends on the sun."
- 51) What are the trophic levels? Give an example of a food chain and state the different trophic level in it.
- 52) What is the role of decomposers in the ecosystem?
- 53) What is ozone and how does it affects any ecosystem?

- 54) How can you help in reducing the problems of waste disposal? Give any two methods.
- 55) What will happen if we kill all the organisms in one trophic level?
- 56) Will the impact of removing all the organisms in a trophic level be different for different trophic levels? Can the organism of any trophic level be removed without causing any damage to the ecosystem?
- 57) If all the wastes we generate is biodegradable, will this have no impact on the environment?
- 58) What are the problems caused by non-biodegradable wastes that we generate?
- 59) What limits the number of trophic levels in a food chain?
- 60) What is the harm of clay cups?
- 61) State one reason to justify the position of man at the apex of most food chains.
- 62) Which food chains are advantageous in terms of energy?
- 63) If all the wastes we generate is biodegradable what impact may this have on the environment?
- 64) Write the harmful effect of ozone depletion.
- 65) Which of the following will have the maximum concentration of harmful chemicals in its body?
PEACOCK, FROG, GRASS, SNAKE, GRASSHOPPER
- 66) Why energy of herbivores never come back to the autographs?
- 67) Give the correct sequence of various trophic levels in a food chain.
- 68) What is biological magnification and give its causes?
- 69) DDT has entered food chain. Which food habit is safer: vegetarian or non-vegetarian?
- 70) Aquarium requires regular cleaning whereas lakes normally do not. Why?
- 71) How will accumulation of biodegradable waste effect our environment?
- 72) DDT that was sprayed in minute amount on food plants was detected in high concentration in man. How did it happen? Explain.
- 73) Describe how ozone layer is formed.
- 74) What are the major components of environment?
- 75) Why are the some substances biodegradable and some non-biodegradable?
- 76) Explain why a food chain consists of few steps only? Write a food chain having five steps.
- 77) What is the difference between food chain and food web?
- 78) What is biological magnification? Illustrate with the help of example.
- 79) What are the ill effects of ozone layer depletion?
- 80) What is the significance of food chain?

- 81) How garbage pollution can be controlled?
- 82) What are the components of an ecosystem? Explain with examples.
- 83) Write any three activities which are eco-friendly.
- 84) Energy transfer is said to be unidirectional whereas biochemical transfer is said to be cyclic. Why?
- 85) Give difference between producers and consumers. Mention one example of each.
- 86) There are no predators for tiger or lion. Why?
- 87) What are the measures to protect ozone depletion?
- 88) Describe three biotic components of ecosystem. Also give examples.
- 89) What is ozone? How does it affect any ecosystem?
- 90) Give any two ways in which biodegradable substances would affect the environment.
 - (a) They will serve as breeding ground for flies and mosquitoes which are carriers of 3 diseases like cholera, malaria etc. Give any two ways in which non-biodegradable substances would affect the environment.
 - (b) They produce foul smell, thus causing air pollution.
- 91) Why is damage to the ozone layer a cause for concern? What steps are being taken to limit this damage?
- 92) Why some substances are degraded and others not?
- 93) What will happen if all carnivores are removed from the earth?
- 94) What will happen to grasslands if all the grazers are removed from there?
- 95) The no. of malarial patients in a village increase tremendously, when a large number of frogs were exported from the village. What could be the cause for it? Explain with the help of food chain
- 96) What are decomposers and what is the importance of them in the ecosystem?
- 97) What will happen if decomposers are not there in the environment?
- 98) Are plants actually producers of energy
- 99) It is the responsibility of the government to arrange for the management and disposal of waste. As an individual you have no role to play. Do you agree? Support your answers with two reasons.