# CLASS X – SCIENCE – CHAPTER 13
# OUR ENVIRONMENT

Name:                                                                                    Date:

**CHOOSE THE CORRECT OPTION FROM QUES 1 TO 15**

**Q01**. A food chain always starts with

(a) respiration          (b) photosynthesis          (c) nitrogen fixation          (d) decay

**Q02**. Ozone layer is damaged by-

(a) methane          (b) carbon-dioxide          (c) Sulphur dioxide          (d) CFCs

**Q03**. Which of the following is non-biodegradable?

(a) paper                    (b) wood                    (c) cloth                    (d) plastic

**Q04**. Which of the following is not a terrestrial ecosystem?

(a) forest                    (b) desert                    (c) aquarium                    (d) grassland

**Q05**. The second trophic level is always of-

(a) herbivores          (b) autotrophs          (c) carnivores          (d) producers

**Q06**. The percentage of solar radiation absorbed by all the green plants for the process of

photosynthesis is about-

(a) 1%                    (b) 8%                    (c) 5%                    (d) 10%

**Q07**. The ecosystem of earth is known as-

(a) biome                    (b) community                    (c) biosphere                    (d) association

**Q08**. Flow of energy in an ecosystem is always-

(a) Unidirectional          (b) no direction          (c) multi-directional          (d) bi-directional

**Q09**. All living organisms of the earth constitute a-

(a) biosphere          (b) biotic community          (c) biome                    (d) ecosystem

**Q10**. Which of the following limits the number of trophic levels in a food chain?

(a) water                                                        (b) polluted air

(c) deficient food supply                              (d) decreases in energy at higher trophic Levels

**Q11**. Which of the following constitute a food chain?

(a) Grass, goat and human                          (b) Goat, cow and elephant

(c) Grass fish and goat                                (d) Grass, wheat and mango

**Q12.** The functional unit of environment is

(a) Ecosystem
(b) Nitrogen

(c) Carbon
(d) Oxygen

**Q13.** In natural ecosystems, decomposers include-

(a) only bacteria and fungi
(b) only microscopic animals

(c) herbivores and carnivores
(d) both (b) and (c)

**Q14.** The decomposers in an ecosystem-

(a) convert inorganic material to simpler forms

(b) convert organic material to inorganic forms

(c) convert inorganic material into organic compound

(d) do not break down organic compound

**Q15.** What will happen if deer is missing in the given food chain?

Grass → Deer →Tiger

(a) the population of tiger decreases and the population of grass increases

(b) the population of grass decreases

(c) tiger will start eating grass

(d) the population of tiger increases

**Q01.** Name the main source of energy in self-sustaining ecosystem?

**Q02.** Write an aquatic food chain.

**Q03.** Give scientific terms for the following-

(a) the process of eating and being eaten

(b) the relationship between abiotic and biotic component

**Q04.** What is meant by environment? Name its components.

**Q05.** What is 10% law?

**Q06.** What is artificial ecosystem? Give two examples.

**Q07.** DDT that was sprayed in minute amount on food plants was detected in high concentration in man? How did it happen? Explain.

**Q08.** Describe how ozone layer is formed?

**Q09.** What are the major components of environment?

**Q10**. Why are some substances biodegradable and some non-biodegradable?

**Q11**. What is trophic level?

**Q12**. Write a fresh water food chain?

**Q13**. Energy transfer is said to be unidirectional whereas biochemical transfer is said to be cyclic. Why?

**Q14**. Why is there a need to ban the use of polythene bags?

**Q15**. What is the significance of food chain?

**Q16**. How would you dispose the following wastes:

(a) domestic wastes like vegetables peels          (b) industrial wastes

**Q17**. Explain why the food chain consists of few steps only? Write a food chain having five steps

**Q18**. What is the difference between food chain and food web?

**Q19**. What is biological magnification? Illustrate with the help of example.

**Q20**. What are the ill effects of ozone layer depletion?

**Q21**. Which of the following belong to the same trophic level: grasshopper, spider, grass, hawk, and lizard?

**Q22**. What is acid rain?

**Q23**. Why vegetarian food habits help us in getting more energy?

**Q24**. Write a food chain having two trophic levels.

**Q25**. Diagrammatically represent the transfer of energy in a food chain.

**Q26**. 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?

**Q27**. What is the significance of food chains?

**Q28**. How Garbage pollution can be controlled?

**Q29**. What are the components of ecosystem?

**Q30**. Write any three activities which are eco-friendly.

**Q31**. Name the main source of energy in any self-sustaining system.

**Q32**. Which of the following in not a part of biotic component of an ecosystem: water, algae, fish, bacteria?

**Q33**. Why is there a need to ban the use of polythene bags?

**Q34**. What are the two functions of ecosystem?

**Q35**. What percentage of solar energy is trapped and utilized by plants?

**Q36**. Energy transfer is said to be unidirectional whereas biochemical transfer is said to be cyclic. Why?

**Q37**. Give difference between produces and consumers.

**Q38**. There are no predators for tiger or lion. Why?

**Q39**. What are the measures to protect ozone depletion?

**Q40**. What are the various steps of food chains are called?

**Q41**. Which one is not biodegradable: paper, plastic, sewage?

**Q42**. What are the harmful effects of acid rain?

**Q43**. Differentiate between abiotic and biotic components of ecosystem.

**Q44**. Give any two methods reducing the problem of waste disposal.

**Q45**. Give reason: "Life on the earth depends on the sun."

**Q46**. Describe three biotic components of ecosystem.

**Q47**. What is the role of decomposers in the ecosystem?

**Q48**. What will happen if we kill all the organisms in one trophic level?

**Q49**. What is Ozone? How does it affect any ecosystem?