

## Chapter- 15.

---

# Our Environment

## Section A (One-mark questions)

1. What percentage of sunlight is captured by plants to convert it into food energy?

(a) 1%

(b) 10%

(c) 50%

(d) more than 50%

2. Flow of energy in an ecosystem is always

(a) unidirectional

(b) bidirectional

(c) multidirectional

(d) none of these

3. Which of the following is non-biodegradable?

(a) Tea leaves

(b) Nylon

(c) remains of animals

(d) fleece of sheep

4. The structural and functional unit of the environment is known as:

(a) ecosystem

(b) biosphere

- (c) food chain
  - (d) food web
5. Depletion of ozone layer is mainly due to
- (a) Methane
  - (b) Carbon Dioxide
  - (c) Chlorofluorocarbons
  - (d) Nitrogen

### Section B (Three marks questions)

Q1. Construct an aquatic food chain showing four trophic levels.

Q2. Explain the phenomenon of bio magnifications. How does it affect organisms belonging to different trophic levels particularly the tertiary consumer?

Q3. Human being occupies the top level in any food chain. what are consequences of this on our body?

Q4. In the following food chain ,100J of energy is available to the lion. How much energy was available to the the producer?

Plants → Deer → Lion.

Q5.why is a lake considered to be a natural ecosystem?

Q6. what are the various steps in a food chain?

Q7. State a way to prevent accumulation of harmful chemicals in our bodies .

Q8. state two advantages of conserving forest and wildlife

Q9. We do not clean ponds or lakes, but an aquarium needs to be cleaned, why?

Q10. Why are only 4 or 5 trophic levels present in each food chain?

Q11.why is it necessary to conserve our environment.

Q12.The first trophic level in a food chain is always a green plant. Why?

Q13.Why are green plants called producers?

Q14."Energy flow in an ecosystem is always unidirectional" 'Justify this statement.

Explain how the pesticides enter a food chain and subsequently get into our body.

Q15. Why is only 10% of the energy made available to the next trophic level when green plants are eaten by herbivores.

### Section C ( five marks questions)

- 1) Name the radiation absorbed by the ozone layer. What would happen to living beings on earth if the ozone around us disappears? How can we prevent ozone depletion?
- 2) Explain the role of producer, consumer and decomposers in ecosystem.
- 3) Flow of energy is unidirectional. What do you understand by this statement?
- 4) Electrical gadgets are now available with stars on it. Buildings are marked as green building, green school etc. what does it mean? Should we go for such gadgets and practice? Which values are shown?
- 5) Describe how greenhouse effect may cause atmospheric heating. Name any two atmospheric constituents responsible for this. How can we prevent global warming?