

INDIAN SCHOOL NIZWA

Ch-13 Our Environment - MCQs

1. In the given food chain, suppose the amount of energy at the fourth trophic level is 5 kJ, what will be the energy available at the producer level?

Grass → Grasshopper → Frog → Snake → Hawk

- (a) 5 kJ
- (b) 50 kJ
- (c) 500 kJ
- (d) 5000 kJ

2. The Foodweb is constituted by:

- (a) relationship between the organisms and the environment
- (b) relationship between plants and animals
- (c) various interlinked food chains in an ecosystem
- (d) relationship between animals and the environment

3. Choose the incorrect statement from the following:

- (a) Ozone is a molecule formed by three atoms of oxygen.
- (b) Ozone shields the surface of the Earth from ultraviolet radiations.
- (c) Ozone is deadly poisonous
- (d) Ozone gets decomposed by UV radiations

4. Organisms of a higher trophic level which feed on several types of organisms belonging to a lower trophic level constitute the:

- (a) food web
- (b) ecological pyramid
- (c) ecosystem
- (d) food chain

5. Expand the abbreviation GAP:

- (a) Governmental Agency for Pollution Control
- (b) Gross Assimilation by Photosynthesis
- (c) Ganga Action Plan
- (d) Governmental Agency for Animal Protection

6. Which of the following are biodegradable substances?

- (a) Glass bottle, Grass
- (b) Jute bag, polythene bag
- (c) Cotton cloth, vegetable peels
- (d) DDT, Pen refill.

7. Which of the statements is incorrect?

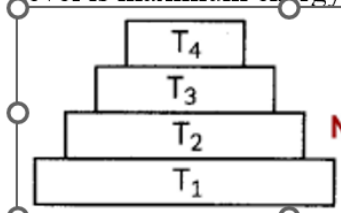
- (a) Producers form the first trophic level.
- (b) Producers trap solar energy and transform it into chemical energy in food.
- (c) All plants are producers.
- (d) Nutrients and energy enter the living world through producers.

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

- (a) Decrease in energy at higher trophic levels
- (b) Deficient food supply
- (c) Polluted air
- (d) Water

9. In the given figure, the various trophic levels are shown in a pyramid. At which trophic

level is maximum energy available?



10. Disposable plastic plates should not be used because:

- (a) they are made of materials with light weight
- (b) they are made of toxic materials
- (c) they are made of biodegradable materials
- (d) they are made of non-biodegradable materials

11. Food web is constituted by:

- (a) Relationship between the biotic and abiotic components of ecosystem.
- (b) Relationship between abiotic components and recycling of nutrients.
- (c) Relationship between biotic components and biogeochemical cycles.
- (d) Various interlinked food chains in an ecosystem

12. Consider a terrestrial food chain: Grass → Grasshopper → Frog → Snake → Eagle
The energy transfer in the above food chain will be from:

- (I) Producer to decomposer
- (II) Producer to primary consumer
- (III) Primary consumer to secondary consumer
- (IV) Tertiary consumer to Secondary consumer
- (a) Both (I) and (III)
- (b) Both (I) and (IV)
- (c) Both (II) and (III)
- (d) Both (III) and (IV)

13. Which of the statements regarding food chain are correct?

- (I) All food chains are of equal length and complexity.
- (II) Food chains generally consist of only three or four steps.
- (III) The greatest number of organisms in a food chain is of the producers.
- (IV) Relationships between organisms can be shown only by straight lines.
- (a) Both (I) and (II)
- (b) Both (II) and (III)
- (c) Both (III) and (IV)
- (d) (II), (III) and (IV)

14. Ozone-depleting substances are chiefly utilized in

- (I) chimneys
- (II) cooling and refrigeration applications and in the manufacture of foam products
- (III) all of the human activities
- (IV) burning fossil fuels
- (a) Only (I)
- (b) Only (II)
- (c) (I), (II) and (IV)
- (d) (II), (III) and (IV)

15. Which organism shown in the food chain above would contain the greatest concentration of chemical pollutants?

Phytoplankton → Krill → Small fish → Tuna → Shark

- (a) Phytoplankton
- (b) Krill
- (c) Tuna
- (d) Shark