



SHIKSHA CLASSES

Sub. : Science
Std. : Xth - CBSE

Question Paper
15. Our Environment

Marks : 30
Time : 1 Hour.

SECTION (A)

(Each 1 marks)

Q.1 : What will happen if deer is missing in the food chain given below?

Grass → Deer → Tiger

- a) The population of tiger increases b) The population of grass decreases.
c) Tiger will start eating grass. d) The population of tiger decreases and the population of grass increases.

OR

In a food chain the second trophic level is occupied by :

- a) Carnivores b) Autotrophs c) Herbivores d) Producers

Q.2 : Select the biodegradable wastes : DDT, crop residue, leather, glass.

OR

List two man-made ecosystems.

For question numbers 3 to 5 two statements are given- one labeled Assertion (A) and the other labeled Reason (R). Select the correct answer to these questions from the codes (a), (b), (c) and (d) as given below:

- a) Both A and R are true, and R is correct explanation of the assertion.
b) Both A and R are true, but R is not the correct explanation of the assertion.
c) A is true, but R is false.
d) A is false, but R is true

Q.3 : **Assertion(A):** Accumulation of harmful chemicals is maximum in case of organisms at higher trophic level.

Reason(R): Food chain normally do not go beyond 3 or 4 trophic level.

Q.4: **Assertion(A):** Ozone is formed in upper atmosphere by O₂ in presence of UV radiations.

Reason(R): Ozone depletion will lead to UV rays reaching earth which may cause skin cancer.

Q.5: **Assertion(A):** Polythene bags and plastic containers are non-biodegradable substances.

Reason(R): They can be broken down by microorganisms in natural simple harmless substances.

Q.6: Write True or False :

The disposal of wastes by putting it in low-lying areas of ground and covering it with earth is called landfill.

Q.7 : Observe the diagram and answer any Two questions from 5(i) to 5(iii) (2)



- i) Snake is which type of consumer?
 a) Primary b) Secondary c) Tertiary d) Final
- ii) If the frog is reduced from the food chain which type of consumer are reduced?
 a) Primary b) Secondary c) Tertiary d) Tertiary and Final
- iii) Name the final consumer in the diagram.
 a) Frog b) Eagle c) Grasshopper d) None of these

Q.8: Which is incorrect:

- a) all green plants and blue green algae are producers
 b). green plants get their food from organic compounds
 c). producers prepare food from inorganic substances
 d). plants convert solar energy to chemical energy

Q.9: The % of solar radiation absorbed by all green plants for photosynthesis is about _____.

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

Q.10: The flow of energy in ecosystem :

- a) unidirectional b) Bidirectional c). multidirectional d). no specific direction

Q.11: In an ecosystem, the 10% of energy available for transfer from one trophic level to next is in the form of _____.

- a). heat energy b). light energy c). mechanical energy d)chemical energy

Q.12: In a food chain, the third trophic level is always occupied by _____.

- a) carnivores b) herbivores c) omnivores d) decomposers

Q.13: An ecosystem includes _____.

- a) all living organisms b) non living objects
 c) both living and non living components d) sometimes living sometimes non living

Q.14: The number of atoms of oxygen in ozone _____.

- a) 2 b) 3 c) 6 d) 7

Section B

(Each 2 Marks)

Q.15 : Define the term biomagnification.

OR

What is ecosystem ?

Q.16: “The maximum concentration of harmful chemicals accumulates in human beings “ State the phenomenon involved and justify this statement.

Section C

(Each 3 Marks)

Q.17 : Distinguish between biodegradable and non-biodegradable substances. List two effects of non-biodegradable substances in our environment.

OR

- i) Give any two ways in which biodegradable substances would affect the environment.
 ii) What will happen if we kill all the organisms in one trophic level?

Q.18 : Write the cause of each of the following:

- i) Acid Rain

- ii) Depletion of ozone layer in the atmosphere
- iii) Greenhouse effect in air.

SECTION (D)

(5 Mark)

Q.19 : Name any five pollutants that cause diseases. Which diseases do they cause? Give details.

OR

- i) Energy flow in a food chain is unidirectional. Justify this statement.
- ii) Explain how the pesticides enter a food chain and subsequently get into our body?

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