

MODEL QUESTION PAPER SAMP – 3

Class: 10

Max. Marks: 35

SECTION – I

5X1=5M

Answer all questions.

Each question carries 1 mark.

1. Expand UNEP.

Answer: United Nations Environment Programme

2. Expand CFC.

Answer: Chloro Fluoro Carbon

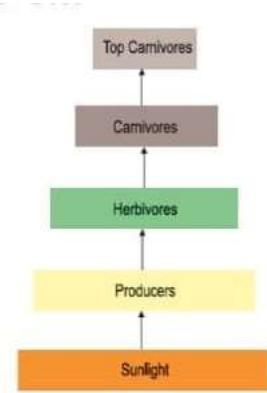
3. Write a slogan on “Ban Pesticides”.

Answer: “Stop pesticides — Save life on Earth!”

4. What do you know about the flow of energy in an ecosystem from the flowchart?

Answer:

Energy comes from the Sun → moves to Producers (plants) → then to Herbivores → then to Carnivores → finally to Top Carnivores.



Energy decreases at each step.

5. Write the chemical name of O₃.

Answer: Ozone

SECTION – II

3X2=6M

Answer all questions.

Each question carries 2 marks.

6. Give any two ways in which non-biodegradable substances affect the environment.

Answer:

1. They do not decompose, so they stay in the soil and pollute it.
2. They harm animals when eaten and can enter the food chain.

7. What is the role of decomposers in an ecosystem?

Answer:

Decomposers break down dead plants and animals.

They return nutrients to the soil and keep the environment clean.

8. What precautions do you suggest to reduce the usage of non-biodegradable wastes?

Answer:

1. Use cloth bags instead of plastic bags.
2. Reuse and recycle materials.

SECTION – III

4X3=12M

Answer all questions.

Each question carries 4 marks.

9. “Ozone depletion is a serious issue.” Do you agree? Explain.

Answer:

Yes, it is a serious issue because:

- Ozone protects us from harmful UV rays.
- If ozone decreases, UV rays cause skin cancer and eye problems (Cataract).
- It affects plants and animals.
- CFCs from refrigerators and sprays destroy ozone.
- So, preventing ozone depletion is very important,

10. Write slogans on eco-friendly activities to save the environment.

Answer:

1. “Plant trees, breathe free!”
2. “Reduce, Reuse, Recycle!”
3. “Save water, save life!”
4. “Keep the Earth clean and green!”
5. “Save trees, save life.”
6. “Protect nature for the future.”

11. What is biomagnification? Explain with an example.

Answer:

Biomagnification is the increase of harmful chemicals at higher trophic levels.

Example:

Pesticides enter plants → herbivores eat the plants → carnivores eat herbivores → amount of pesticide becomes very high in top carnivores.

- Pesticides in water → Algae → Fish → Birds → Humans.

12. What will happen if any trophic level is removed from an ecosystem?

Answer:

- Food chains get disturbed.
- Population of organisms becomes imbalanced.
- Ecosystem stability is lost.
- Energy flow is affected.

SECTION – IV

Answer the question.

1X8=8M

13. Explain some methods to reduce the usage of pesticides.

Answer:

1. Use natural pest control like neem spray.
2. Grow pest-resistant crop varieties.
3. Use biological control, using birds, frogs, or insects that eat pests.
4. Practice organic farming.
5. Use crop rotation to reduce pest growth.
6. Maintain clean fields to prevent pests.
7. Encourage eco-friendly farming methods.
8. Create awareness among farmers.

Thank you...

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