

Chapter- 15

OUR ENVIRONMENT

Sub-Topic Name: Environment, Ecosystem, Components and function of an ecosystem.

Period-1

Level-1

1 Mark Questions

Easy-Very Short Answers

1. Name two aquatic ecosystems.
2. Name two terrestrial ecosystems.
3. Give two examples of Artificial ecosystems.
4. Which is the ultimate source of the energy for an ecosystem?
5. Name the category of organism which feed the energy into the ecosystems.
6. Give the scientific term for organisms which feed directly on plants.

Level-2

2 Marks Questions

Medium

1. What are the differences between biodegradable and non-biodegradable wastes.
What is Ecosystem? What are the different types of Ecosystem?
2. Why does aquarium have to be cleaned once in a while?
3. Do we have to clean ponds or lakes in the same manner of aquarium? Why or why not?
4. What are the different components of echo system?
5. What are trophic levels? Give an example of a food chain and state the different trophic levels in its.
6. What is the role of decomposers in the ecosystem?

Level-3**3 Marks Questions**

1. What is the role of bacteria and fungi in an ecosystem?
2. What are trophic levels?
3. How much energy is transferred to the next trophic level in a food chain?
4. Which trophic level has the highest concentration of toxic substances in a food chain?
5. Mention some sources of CFC's.
6. Distinguish between a food chain & a food web.

Level-4**5 Marks Questions****HOTS Questions**

1. What would happen if the balance of nature is disturbed?
2. How can you say that the ecosystem is dynamic?
3. why does an ecosystem attain a state of equilibrium?
4. state the significance of law of Conservation of energy and law of entropy in an ecosystem.
5. why is ecosystem self regulatory by nature?

Period-2

Sub-Topic Name: food chain, food web, trophic level, 10% law

Level-1

1 Mark Questions

Easy-Very Short Answers

1. What are the different components of echo system?
2. What are trophic levels? Give an example of a food chain and state the different trophic levels in its.
3. What is the role of decomposers in the ecosystem?
4. What are the importance of decomposers?
5. What is a food chain?
6. What is food web?

Level-2

2 Marks Questions

Medium

1. What is a food chain? Write a five step food chain found in grass land with frog as one of themembers. What will happen to organisms at different trophic levels if all the frogs are removed?
2. What are the problems caused by the non-biodegradable wastes that we generate?
3. Food chains generally consist of only 3 or 4 trophic levels. Why is it so?
4. Observe the food chain Plant (1000 kJ) --- >Goat ---> Lion (a) If autographs occupying the firsttrophic level are called producers what are herbivores Called as? (b) How much energy does the lion get in the above food chain?

Level-3**3 Marks Questions**

1. Distinguish between a food chain & a food web
2. What would happen if there are no decomposers on earth?
3. What is a food chain? Write a five step food chain found in grass land with frog as one of the members. What will happen to organisms at different trophic levels if all the frogs are removed?
4. The number of malaria patients increased tremendously when a large number of frogs were exported from the village .What could be the cause for it? Explain with the help of a food chain.
5. What are the problems caused by the non-biodegradable wastes that we generate?

Level-4**5 Marks Questions**

HOTS Questions

1. *what is a food chain ? Illustrate the concept if grass land ecosystem*
2. *How is a food web created in the nature ? Construct a food web and describe the concept.*
3. *Describe the unidirectional flow of energy in an ecosystem.*

Period-3

Sub-Topic Name: pyramid of biomass, pyramid of number, biomagnification

Level-1

1 Mark Questions

Easy-Very Short Answers

1. First order consumers are:
 - (a) Carnivores
 - (b) Herbivores
 - (c) Decomposers
 - (d) Omnivores

2. A detritus food chain begins with
 - (a) Carnivores
 - (b) Herbivores
 - (c) Omnivores
 - (d) Decomposers

3. In an ecosystem, the 10% of energy disposable for transfer from one trophic level to next is in the form of
 - (a) heat energy
 - (b) chemical energy
 - (c) mechanical energy
 - (d) light energy

4. What is Biomagnification?
5. What is food pyramid?
6. what is biomass?

Level-2**2 Marks Questions**

Medium

1. Suggest activities in our daily life which are eco friendly.
2. How can you help in reducing the problem of waste disposal? Give any two methods.
3. What is the importance of phytoplankton?
4. Which pollutants are contributed by airplanes?

Level-3**3 Marks Questions**

1. What is biological magnification.? Explain with examples.
2. Can an ecosystem survive without producers?
3. What is pyramid of numbers, biomass and energy?

Level-4**5 Marks Questions**

HOTS Questions

1. What do you understand by the term biological magnification? .Explain the process by taking DDT as an example

Period-4

Sub-Topic Name: Human activities and environment, ozone layer formation, depletion, managing garbage we produce.

Level-1

1 Mark Questions

Easy-Very Short Answers

1. What happens when we add our waste to the environment or throw?
2. What are the different types of waste materials?
3. What happens after we throw waste away them away?
4. Why are some substances biodegradable and some non-biodegradable?
5. What are the harmful effects of biodegradable substance?
6. What are the harmful effects of non- biodegradable substance?
7. Name some of the biodegradable plastics.
8. What are the differences between biodegradable and non-biodegradable wastes.What is Ecosystem? What are the different types of Ecosystem?

Level-2

2 Marks Questions

Medium

1. When is World Ozone Layer Preservation Day celebrated?
2. What is green house effect?
3. Suggest activities in our daily life which are eco friendly.
4. How can you help in reducing the problem of waste disposal? Give any two methods.
5. What is the importance of phytoplankton?
6. Which pollutants are contributed by airplanes?
7. How is ozone layer formed in the atmosphere? What is the function of this layer?
8. Name any two biodegradable wastes.
9. Name any two non-biodegradable wastes.

Level-3

3 Marks Questions

1. Why is damage to the ozone layer a cause of concern? What steps are being taken to limit this damage?
2. Which compounds are responsible for the depletion of ozone layer?
3. Which disease is caused in human being due to depletion of ozone layer in the atmosphere?
4. Why is ozone layer getting depleted at higher levels of the atmosphere?
5. How is ozone formed in the upper atmosphere? Which compounds are responsible for the depletion of ozone layer?

Level-4

5 Marks Questions

HOTS 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. Damage to the ozone layer is a cause for concern. Justify this statement. Suggest any two steps to limit this damage.
3. What is a biodegradable waste? If all the waste we generate is biodegradable, what impact may this have on the environment?
4. Why is ozone layer getting thinner day by day? What are its harmful consequences?
5. Write about the different types of wastes and their adverse effects on the environment in details.