

QUESTION BANK

Unit1: INTRODUCTION

Two Marks Questions:

1. Define Ecology
2. List and explain any two elements of environment.
3. What is an Ecosystem?
4. Write the differences between autecology and synecology.
5. Name the two structural components of an ecosystem.
6. What are heterotrophs? Mention the types of heterotrophs.
7. Define Macro consumers. Write the classification of the same.
8. Mention the two components associated with the functioning of an ecosystem.
9. Define Trophic level. Mention the types of trophic levels generally seen in an ecosystem.
10. What is a food chain? Name the type of food chains.
11. What is meant by bio-geochemical cycle?
12. Mention the types of biogeochemical cycles with example for each.
13. Classify the fresh water ecosystem. Write example for each.
14. What are ponds? Name the strata found in a pond.
15. India comes in which region of Biogeography classification? Write the special features of the region.
16. Write the characteristic features of Trans Himalayan Zone.
17. Write the characteristic features of Himalayan Zone
18. Write the characteristic features of Desert Zone
19. Write the characteristic features of Semi-arid Zone
20. Write the characteristic features of Gangetic Plain Zone.
21. Define Biodiversity. Mention the type of biodiversity.
22. Name the components used to measure biodiversity.
23. Write the names of hotspots present in India.
24. "Global climate change is a threat to biodiversity. Explain.
25. Name the biotic components of environment.
26. Mention the abiotic components of environment.
27. Define biotic component. Give two examples.
28. Write the differences between Troposphere & Stratosphere.
29. Define (a) Ethology, (b) Ecological energetics.
30. What is community?
31. Write the characteristic features of Troposphere.
32. Decomposers are also referred as "Natural Scavengers". Justify.
33. Define a Grazing food chain.
34. Explain Detritus food chain with an example.
35. Write the differences between lentic and lotic ecosystem.

36. Write the difference between Phytoplankton and Zooplankton.
37. Describe the characteristic features of decomposers found in pond ecosystem.
38. What are Neuston? Give examples.
39. Write the characteristic features of Benthos.
40. List the characteristic features of genetic diversity.
41. How is biodiversity measured? Explain.
42. India is recognized as "mega diverse country". Justify.
43. What are introduced species? Describe its impact on ecosystem.
44. Write the characteristic features of Arabian Islands.
45. What are the special characteristic features of oriental region?

Five Marks Questions:

1. Define Environment. Explain the four segments of environment.
2. Explain the scope of environmental studies.
3. What is biosphere? Explain.
4. Define Ecosystem. Explain the classification of ecosystem.
5. What are biotic components of an ecosystem? Explain.
6. Explain the passage of energy flow in an ecosystem.
7. Define Trophic level. Write the diagrammatic representation of trophic levels in an ecosystem with example.
8. Define food chain. Explain the type of food chains with representation.
9. Write the schematic representation of structural and functional component of pond ecosystem.
10. Explain the consumers found in an pond ecosystem.
11. Define Bio-Geography. Classify it into regions.
12. Write the names of biogeography zones of India.
13. Explain bio geographical features of Western Ghats.
14. What are hotspots? Explain the criteria for the classification of hotspots.
15. Define hotspots. Explain hotspots present in India.
16. What is meant by threat to biodiversity? List them.
17. Describe the four levels of ecological units.
18. Briefly explain the components of atmosphere.
19. Write a note on composition of biosphere.
20. Define heterotrophs. Explain the types of heterotrophs found in an ecosystem.
21. Explain the classification of aquatic ecosystem.
22. Describe the types of primary consumers found in an pond ecosystem.
23. Define autotrophs. Explain the characteristic features of types of autotrophs found in pond ecosystem.
24. Various human activities in terrestrial and aquatic ecosystems are leading to habitat destruction. Explain.
25. Write a note on a) Endangered species, b) Endemic Species.

Unit 2: ENVIRONMENTAL POLLUTION AND ITS MANAGEMENT

Two Marks Questions:

1. Define a) Environment (b) Environmental pollution.
2. Write the names of primary air pollutants
3. Write a short note on Smog.
4. What is Photochemical Smog?
5. Write a note on Bhopal Tragedy.
6. Define water Pollution. Mention the main sources of water pollution.
7. Write a note on measures to control water pollution.
8. Write a note on various sources that lead to noise pollution.
9. What are the different measures undertaken to control Noise pollution.
10. What is meant by Global warning?
11. Write the names of Green house gases that lead to global warning.
12. Write about effect of global warning.
13. Define solid waste management.
14. List the major sources of solid waste production.
15. What is meant by biodegradable waste? Give example.
16. What is meant by non biodegradable waste? Give examples.
17. What is solid domestic waste? Mention its components.
18. Mention the contents that can be put into a) Green dustbin, b) Blue dustbin.
19. What is a plastic? Mention the reasons as to why plastic use has become indispensable.
20. Write about any two polymers used as plastic and mention one adverse effect caused by it on human health.
21. Explain the impact of plastics on any two groups of animals.
22. What is environmental pollution? Name the factors responsible to cause environmental pollution.
23. Define air pollution. Write the major sources leading to air pollution.
24. How human activities leads to air pollution?
25. List the various phenomena that lead to release of carbon monoxide.
26. Expand SPM. Mention the various sources for its production.
27. Describe the effects carbon dioxide on the Earth.
28. What are the effects produced in humans if they are exposed to increased levels of carbon monoxide?
29. What is CFC? List its effects on human body.
30. Write a note on "Minamata disease".
31. Biological oxygen demand is the index of water pollution. Justify.
32. Explain how eutrophication leads to algal bloom.
33. Describe the causes for Global Warming.
34. Mention the effects of climate change on water resources.
35. Briefly explain the characteristic features of; a) Residential Solid Waste b) Institutional Solid Waste.
36. Write the differences between Bio-Degradable and non-biodegradable waste.

37. Mention the differences between recyclable waste and non-recyclable waste.
38. What is a) Garbage, b) Rubbish.
39. List the adverse effects of Polystyrene on human health.
40. Mention the uses of polyester and the impact it produces on human health.
41. What is PET? List the uses of PET.

Five Marks Questions:

1. Define Environmental Pollution write about the causes for environmental pollution.
2. What is Air Pollution? Explain sources of Air pollution causes.
3. Explain the effect of a) Primary air pollutants. b) Secondary air pollutants.
4. Explain the measures undertaken in our country to control air pollution.
5. What is water pollution? Explain the sources of water pollution.
6. Explain the effects of Water pollution.
7. Define Noise pollution, write a note on a) Sources of Noise pollution. b) Effects of Noise pollution.
8. Explain the concept of Global Warming.
9. Define solid waste management. Explain the major sources of solid waste generation.
10. Explain the management procedures of biodegradable waste.
11. Define non-biodegradable waste. Explain the processes of non-biodegradable waste management.
12. Explain the process of management of municipal solid waste.
13. Explain the procedure of segregation of domestic waste.
14. Define plastic. List any four commonly used polymers as plastic with two uses each.
15. Mention any five commonly used polymers as plastics and write any two adverse effect on human health of the same.
16. Explain the impact of plastics on animal health.
17. Define Air Pollution. Explain the causes of Air Pollution.
18. Write a note on a) BOD, b) Eutrophication.
19. List the reasons responsible for climate change and discuss the effects of climate change on the various components of environment.
20. What is Refuse? Explain.
21. Briefly discuss the impact of following polymers of plastic on human health; a) polyvinyl chloride, b) Phthalates, c) Polyurethane foam, d) Tetrafluoro ethylene, e) Acrylic
22. Discuss the impact of plastic on; a) Fishes, b) Marine Animals, c) Seabirds, d) Marine mammals

Unit 3: NATURAL RESOURCES AND MANAGEMENT

Two Marks Questions:

1. Mention the types of Natural Resources.
2. Define Actual resources, give an example.

3. What is stock resource? Write two examples for same.
4. Write the differences between. Renewable energy resource and non-renewable energy resource.
5. What is water shed management? Mention the importance of watershed management.
6. Write the advantages of rain water harvesting.
7. What is meant by wasteland?
8. Write the difference between cultivable Wasteland and Uncultivable wasteland.
9. Write any four methods of wasteland reclamation.
10. List any two important uses of wasteland reclamation.
11. Define soil conservation. Mention any two important benefits of soil conservation.
12. Define Afforestation. Mention any two advantages of afforestation.
13. What is Disaster? Mention the types of disasters.
14. Write the characteristic features of natural disasters.
15. Write about any two steps to be followed to protect one self from Earthquakes.
16. What are the two strategy that could save a human during floods.
17. Explain any two best self protection strategy to be used during fire accidents.
18. Define natural resources. Mention the types of natural resources on the basis of its origin.
19. Write the differences between Biotic resources and Abiotic resources.
20. Mention the differences between actual resource and stock resource.
21. Write the definition of potential resource and reserve resource with on example each.
22. Describe the technique to recharge ground water through rain water harvesting.
23. Write the characteristic features of barren waste land and cultivable waste land.
24. What is difference between afforestation and reforestation?
25. Define a) reclamation of wasteland, b) Mulching, c) Ecological succession.
26. Write the differences between major and minor type of natural disaster.
27. How 'providing surface cover' can lead to reclamation of waste land?
28. List any three benefits of watershed management.
29. What are the uses of protecting natural forests?
30. Write a note on benefits of rain water harvesting.

Five Marks Questions

1. Explain the types of Natural resources on the basis of their origin.
2. Write a note on natural resources based on their stage of development.
3. Define Energy resources. Mention any eight types of energy sources using which power can be generated.
4. Write the classification of energy resources and explain.
5. Define Rain water harvesting. Explain importance of rain water harvesting.

6. What is water shed management? Add a note on importance of water shed management.
7. What are wastelands? Explain the classification of wastelands.
8. Write the definition of Reclamation of waste land. List and explain any four methods of waste land reclamation.
9. Write any five benefits of waste land reclamation.
10. Write a note on importance of soil conservation.
11. What is Afforestation? Explain the importance of Afforestation.
12. Define Disaster. Explain the natural disasters with example.
13. What is a disaster. Write a note on manmade disasters.
14. Explain the self protection strategy during Earthquakes.
15. Explain the self protection strategy during Floods.
16. Explain the self protection strategy fire accidents.
17. Write the characteristic features of following resources with an example each; a) Potential resource, b) Actual resource, c) Reserve resource, d) Stock resource, e) Fossil energy resource.
18. Explain the techniques of surface rain water harvesting.
19. Define Disaster. Explain the types of disasters with examples.