

2 ½ Hours

Total Marks: 75

**NOTE:**

1. Attempt all questions.
2. All questions carry equal marks.
3. Draw neat labeled diagrams wherever necessary.
4. For Q 2, Q 3 and Q 4 attempt A and B OR C and D.

**Q 1 Do as directed (Any fifteen)**

15

1. \_\_\_\_\_ is the graphic representation of the number of individuals per unit area of various trophic levels.
2. \_\_\_\_\_ are also called man-made ecosystems.
3. In which manner minerals flows in an ecosystem?
4. What are transducer?
5. What is the full form of NPP?
6. In \_\_\_\_\_ interaction neither of the population is affected by association with each other.
7. What do you mean by antibiosis?
8. Enlist any two air pollutants.
9. Define: Soil pollution.
10. What do you mean by outdoor pollution?
11. Write any two effects of air Pollution on human being.
12. pH of acid rain is \_\_\_\_\_.
13. State whether the following statement is correct or not - Radon gas is released from Earth's crust.
14. \_\_\_\_\_ are formed after plant life is fossilized.
15. Name the gases emitted by crude oil powered vehicles that cause air pollution.
16. State whether the following statement is true or false. 'Thermal power stations that use coal produce waste in the form of fly ash.'
17. State the significance of sunspaces built in buildings.
18. Biofuels include two forms of alcohol: Ethanol and \_\_\_\_\_.
19. \_\_\_\_\_ is the third largest wind energy producer country in the world.
20. Name the energy stored within the earth that uses the heat rising from the magma.



- Q. 2 A Write in brief about the structure and function of an ecosystem. 08  
Q. 2 B Write in detail about the primary and secondary productivity of the Ecosystem. 07

OR

- Q. 2 C Write in detail about parasitism with two examples. 08  
Q. 2 D Explain in detail about antibiosis with experimental work. 07

- Q. 3 A What is marine Pollution? Write about its causes and effects. 08  
Q. 3 B Discuss water pollution in detail. 07

OR

- Q. 3 C Explain nuclear Hazard with its sources and human risk. 08  
Q. 3 D Define acid rain. Discuss with its causes and effects. 07

- Q. 4 A Define the term 'Renewable sources of energy'. Explain hydroelectric power as one of the sources of renewable energy. Add a note on its drawbacks. 08

- Q. 4 B Explain a case study on crude oil related disasters. 07

OR

- Q. 4 C Describe wind power as a source of renewable energy. Add a note on its environmental impacts. 08

- Q. 4 D Illustratively describe the functioning of tidal wave power plants based on basin types. 07

- Q. 5 Write short notes on any three of the following 15  
a. Thermal Pollution  
b. Holocaust  
c. Food chain.  
d. Types of Ecosystem.  
e. Floating drum biogas plant