

COURSE : CORE
PAPER : ENVIRONMENTAL BIOTECHNOLOGY
TIME : 3 HOURS

MAX. MARKS: 100

SECTION – A

ANSWER ALL QUESTIONS:

(10 x 2 = 20)

1. What are Edges?
2. Explain GIS.
3. Write on Greenhouse gases.
4. Write a note on Biosensors.
5. What is Composting?
6. Why are Bio-indicators important to the environment?
7. Write a note on Incineration method.
8. What is Phytoconcentration?
9. Expand MFC
10. What is Recalcitrance ?

SECTION – B

ANSWER ALL THE QUESTIONS:

(5 x 8 = 40)

11. (a) Explain the concept of metapopulation.
(or)
(b) Give an account on resource partitioning.
12. (a) Elaborate on application of biotechnology for conservation of environment
(or)
(b) Briefly explain the different types of pollution.
13. (a) Write a note on waste management in paper and pulp industry.
(or)
(b) Explain the process of vermicomposting in detail.
14. (a) Describe biodegradation of hydrocarbon and its pathway.
(or)
(b) Discuss the role of microbes in bioleaching.
15. (a) Illustrate with examples the role of nano-science in environment management.
(or)
(b) Explain the importance of GMO's in waste management.

SECTION – C

ANSWER ANY TWO QUESTIONS:

(2 x 20 = 40)

16. Discuss population ecology in detail.
17. Describe wastewater treatment in detail.
18. Elaborate on the use of Molecular Biology tools in environment management.
19. Explain degradation of xenobiotic substances and its applications.
