

1. Attempt all questions.
2. All questions carry equal marks.
3. Draw neat labeled diagrams wherever necessary.
4. Use of log tables and non-programmable calculator is allowed.
5. For Q.2, Q.3 and Q.4 attempt A and B OR C and D.

Q.1 Do as directed (Any fifteen)

1. What is Eutrophication? 1
2. Give any one cause of soil erosion. 1
3. Define Smog. 1
4. _____ is/are type/s of biocide/s.
i) DDT ii) BHC iii) Aldrin iv) all of the above 1
5. What are aerosol pollutants? 1
6. The solid waste produced in homes, schools, offices and shops is called _____. 1
7. What are Halocarbons? 1
8. Give any one significance of Montreal protocol. 1
9. Explain the term -'Dry deposition'. 1
10. Define - Global Warming Potential. 1
11. State true or false : "99% of volcanic HCl is catalytically active in the stratosphere". 1
12. Give any one minor source of stratospheric chlorine. 1
13. Name the device used for Ozone column measurements. 1
14. Chlorophenols are soluble in _____ and may leach from contaminated soil to groundwater. 1
15. What is Bioavailability? 1
16. Give the meaning of term Bioslurping. 1
17. Immobilization of cells can be carried out using _____
i) Alginate ii) Sucrose iii) Starch iv) None of the above 1
18. Bioremediation techniques are divided into _____ categories. 1
19. Facultative bacteria can grow under aerobic as well as _____ conditions. 1
20. MPB stands for _____. 1

- Q. 2 A** What are the various methods used in air pollution monitoring? 08
- Q. 2 B** "Waste handling can be a serious occupational hazard", explain giving suitable examples. 07
- OR**
- Q. 2 C** "Particulate matters are responsible for polluting the environment", Justify giving reasons. 08 6
- Q. 2 D** Write a note on types of water pollution. 07 5
- Q. 3 A** "The Green-house gases have far-reaching effects on world's environment" – Justify. 08
- Q. 3 B** Elaborate on Antarctic Ozone Hole. 07
- OR**
- Q. 3 C** What is Acid rain? Describe its effects on environment and suggest control measures for it. 08 4
- Q. 3 D** Describe various effects of UV radiations on health and environment. 07 5
- Q. 4 A** Elaborate on the role of Microorganism in Bioremediation. 08 2
- Q. 4 B** Explain in detail Phytoremediation giving suitable examples. 07 6
- OR**
- Q. 4 C** Discuss biological treatment approach for monitoring efficacy of Bioremediation 08
- Q. 4 D** What are the steps involved in Hazardous site remediation process? 07
- Q. 5** Write Short notes on **any three** of the following 15
- a. Soil erosion.
 - b. Eutrophication.
 - c. Role of Chlorofluorocarbons in Ozone depletion.
 - d. Kyoto protocol.
 - e. Biostimulation.