8. _____ is a mixture of different gases produced by the breakdown of organic matter anaerobically.

 $(12 \times Y2 = 6 \text{ marks})$

Turn over

12. Name a device using micro-organisms for clearing controlling air pollutants.

9. Give an example for recalcitrant pesticides.

10. Name the manure worms used in vermicomposting.11. Name the second lowest layer of earth's atmosphere.

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Section B

Answer **all** questions.

Each question carries 2 marks.

13. Droplet nuclei. 14. COD.

15. Ozonation. 16. Biogas.

17. Winogradsky column. 18. DDT.

19. 'Red tide'. 20. Ingoldian fungi.

21. Indicator organism. 22. Cometabolism.

 $(10 \times 2 = 20 \text{ marks})$

Section C

Write short notes on any **six** of the following. Each question carries 5 marks.

- 23. Air Sampling devices.
- 24. Bioremediation of oil spills.
- 25. Composting.
- 26. Alkyl benzyl sulfonates.
- 27. Techniques for study of aquatic micro-organisms.
- 28. Methanogenesis.
- 29. Air-borne infections.
- 30. Qualitative method for coliform detection in water.

 $(6 \times 5 = 30 \text{ marks})$

Section D

Answer any **two** of the following questions. Each question carries 12 marks.

- 31. Write a note on solid-wastes. Describe various methods used for solid-waste disposal.
- 32. What is meant by bioleaching? Discuss the role of micro-organisms and types of bioleaching methods.
- 33. What are the characteristics of sewage? Write a note on sewage treatment and disposal.

 $(2 \times 12 = 24 \text{ marks})$