

B.Sc. DEGREE (C.B.C.S.S.) EXAMINATION, MARCH 2016**Sixth Semester****Core Course 21—ENVIRONMENTAL BIOTECHNOLOGY**

(For B.Sc. Biotechnology)

[2013 Admissions]

Time : Three Hours

Maximum Marks : 80

Part A (Objective Type Questions)

*Answer all questions.
Each question carries 1 mark.*

1. What is biological Oxygen demand ?
2. What is algal bloom ?
3. What is COD ?
4. What is garbage segregation ?
5. Define the term pollution.
6. Give the sources of radioactive pollution.
7. What is bioremediation ?
8. Name *two* greenhouse gases.
9. Name the main source of air pollution in urban areas.
10. What are landfills ?

(10 × 1 = 10)

Part B (Short Answer Type Questions)

*Answer any eight of the following.
Each question carries 2 marks.*

11. What are the major enzymes used in biodegrading of organic compounds ?
12. What is trickling filter process ?
13. What is bio-magnification ?
14. What is anaerobic pond ?
15. What is meant by green chemistry ?
16. How are heavy metals injurious to human health ?
17. What causes air quality to deteriorate ?

Turn over

18. What is the importance of coagulation ?
19. What is the use of chlorination ?
20. What is incineration ?
21. What are catabolic plasmids ?
22. What is bio-filtration technology ?

(8 × 2 = 16)

Part C

*Answer any **six** of the following.
Each question carries 4 marks.*

23. What are the criteria for testing water purity ?
24. Explain the major causes of ozone layer depletion.
25. What are the different methods of waste water treatment ?
26. What are the harmful effects of pesticides ?
27. What is the principle of bacterial degradation ?
28. Why is consumer education important ?
29. What do you mean by sludge treatment ?
30. What are aerosols ? Give examples.
31. List sources of soil and water pollution.

(6 × 4 = 24)

Part D (Essay Questions)

*Answer any **two** of the following.
Each question carries 15 marks.*

32. What are the different classes of pollutants ? Explain with examples.
33. Give an account of the greenhouse effect and its role in global warming.
34. What are the methods adopted in biodegradation of lignin and cellulose ? Explain.
35. Explain the method of anaerobic treatment of solid waste management.

(2 × 15 = 30)