

Reg. No. :

Name :

Sixth Semester B.Sc. Degree Examination, April 2024

Career Related First Degree Programme under CBCSS

Botany & Biotechnology

Vocational Course

BB 1672 : ENVIRONMENTAL BIOTECHNOLOGY

(2019 Admission Onwards)

Time : 3 Hours

Max. Marks : 80

SECTION – A

Answer **all** the questions in a word or one or two sentences. Each question carries **1** mark.

1. What are bioherbicides?
2. Comment on Total viable count.
3. What is aerobic composting?
4. Define lagooning.
5. List the beneficial role of *Azotobacter*.
6. Define indicator organisms.
7. Identify the uses of *Eisenia fetida*.
8. What is E-waste?
9. Comment on Water act.
10. Identify the uses of *Trichoderma*.

(10 × 1 = 10 Marks)

P.T.O.

SECTION – B

Answer **any eight** questions. Each question carries **2** marks. (Answer not to exceed **1** paragraph)

11. What is meant by sludge?
12. Explain biopesticides with examples.
13. What are the sources of Water pollution?
14. What is gasohol?
15. Comment on *Jojoba*.
16. Discuss the importance of Environmental Protection act.
17. Define pollutant. Give examples.
18. Comment on Superbug.
19. What is Total coliform count?
20. Discuss the methods of land filling.
21. Give a note on photosynthetic pigments.
22. Explain BOD.

(8 × 2 = 16 Marks)

SECTION – C

Answer **any six** questions. Each question carries **4** marks. (Answer not to exceed **120** words)

23. What is meant by non-renewable energy sources? Explain its advantages and disadvantages.
24. Explain the uses mid importance of biomineralization.

25. Discuss different methods for assessing microbial quality of water.
26. What is meant by artificial photosynthesis?
27. Discuss the methods of disposal of sludge.
28. Comment on microbial degradation of pesticides.
29. Explain microbial hydrogen production.
30. Discuss Forest Act.
31. Give note on bio-assessment of environmental quality.

(6 × 4 = 24 Marks)

SECTION – D

Answer **any two** questions. Each question carries **15** marks. (Answer not to exceed **3** pages).

32. What are industrial effluents? Discuss the treatment methods adopted.
33. Discuss the importance and application of environmental biotechnology.
34. What is meant by compost? Explain different methods of composting.
35. What is bioremediation? Explain its types and advantages.

(2 × 15 = 30 Marks)