



K25U 0840

Reg. No. :

Name :

**IV Semester B.Sc. Degree (C.B.C.S.S. – OBE-Regular/Supplementary/
Improvement) Examination, April 2025
(2019 to 2023 Admissions)**

**COMPLEMENTARY ELECTIVE COURSE IN MICROBIOLOGY FOR
B.Sc. BIOCHEMISTRY/B.Sc. BIOTECHNOLOGY/B.Sc. LIFE SCIENCES
(ZOOLOGY) AND COMPUTATIONAL BIOLOGY
4C05MCB : Applied Microbiology – II**

Time : 3 Hours

Max. Marks : 32

Instruction : Draw diagrams **wherever** necessary.

PART – A

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

1. Sludge.
2. Nod factor.
3. Types of solid wastes.
4. Herbicides.
5. Nitrogenase.

(5×1=5)

PART – B

Short essay. Answer **any 4** questions. **Each** question carries **2** marks.

6. Azolla-Anabaena association.
7. Chlorination.
8. Methanogens.
9. Biomagnification.
10. Imhoff tank.

(4×2=8)

P.T.O.



PART – C

Essay. Answer **any 3** questions. **Each** question carries **3** marks.

11. Symbiotic nitrogen fixation.
12. Anaerobic sludge digestion.
13. Sanitary landfills.
14. Effect of pesticides on soil microflora.
15. Mycorrhiza and its significance.

(3×3=9)

PART – D

Long essay. Answer **any 2** questions. **Each** question carries **5** marks.

16. Write a note on the production of microbial inoculants.
17. What are the characteristics of sewage ? Describe the methods for the biological treatment of sewage.
18. What are the common strategies for the disposal of solid wastes ? Elaborate on composting.
19. Write a note on pesticides. Discuss the role of microorganisms in bioremediation of pesticides.

(2×5=10)