



K24U 0740

Reg. No. :

Name :

IV Semester B.Sc. Degree (C.B.C.S.S. – O.B.E. – Regular/Supplementary/
Improvement) Examination, April 2024
(2019 to 2022 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

PART – A

Short answer. **Each** carries **1** mark. (Answer **all** questions)

1. Methanogenesis
2. Gobar gas
3. Rhizobium
4. VAM
5. Incineration.

(5×1=5)

PART – B

Short essay. **Each** carries **2** marks. (Answer **any four** questions)

6. Nif gene
7. Blue green algae
8. Biofertilizer
9. Vermicomposting
10. Bacteria involved in Anaerobic digestion.

(4×2=8)

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PART – C

Essay. **Each** carries **3** marks. (Answer **any three** questions)

11. Types of Nitrogen fixation.
12. Bioremediation.
13. Modern landfill vs traditional methods.
14. Applications of mycorrhizal fungi.
15. Differentiate ectomycorrhiza and endomycorrhiza.

(3×3=9)

PART – D

Long essay. **Each** carries **5** marks. (Answer **any two** questions)

16. Explain about different types of composting.
17. How do microbial decomposition of herbicides and insecticides occur in nature ?
18. Discuss the composition of municipal sewage and different types of sewage treatment.
19. Describe about the production and application of biofertilizers.

(2×5=10)

