



K23U 1136

Reg. No. : .....

Name : .....

**IV Semester B.Sc. Degree (CBCSS – OBE – Regular/Supplementary/  
Improvement) Examination, April 2023  
(2019 Admission Onwards)**

**COMPLEMENTARY ELECTIVE COURSE IN MICROBIOLOGY  
4C05 MCB : Applied Microbiology II**

Time : 3 Hours

Max. Marks : 32

**PART – A**

Short answer – **Each** carries **1** mark :

(Answer **all** questions.)

1. BOD.
2. Vermicast.
3. PGPR.
4. Zooglea.
5. Nif gene.

**(5×1=5)**

**PART – B**

Short Essay – **Each** carries **2** marks :

(Answer **any four** questions.)

6. Cometabolism.
7. Landfills.
8. Methods of application of biofertilizers.
9. Eutrophication.
10. Composting.

**(4×2=8)**

P.T.O.



## PART – C

Essay – **Each** carries **3** marks :

(Answer **any three** questions.)

11. Nitrogenase.
12. Activated sludge.
13. Biogas.
14. VAM-production and application.
15. Septic tank.

(3×3=9)

## PART – D

Long Essay – **Each** carries **5** marks :

(Answer **any two** questions.)

16. How do pesticides affect soil microorganisms ?
17. Discuss municipal solid waste disposal methods.
18. What are biofertilizers ? How is mycorrhiza effective as a biofertilizer ?
19. What is the composition of municipal sewage ? How is it treated ?

(2×5=10)

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