

D 131266**(Pages : 2)****Name.....****Reg. No.....****FIRST SEMESTER M.Sc. DEGREE (REGULAR/SUPPLEMENTARY)
EXAMINATION, NOVEMBER 2025****(CBCSS)****Botany****BOT 1C 02—MYCOLOGY, LICHENOLOGY, MICROBIOLOGY AND PLANT PATHOLOGY****(2019 Admission onwards)****Time : Three Hours****Maximum : 30 Weightage****Section A (Short Answer Type Questions)***Answer any **four** questions.**Each question carries 2 weightage.*

1. What is Heterothallism ?
2. Name two coprophilous fungi.
3. Give two differences between Archaeobacteria and Eubacteria.
4. What are Plasmids ?
5. What are iatrogenic diseases ?
6. Define Koch's postulates.
7. Give the example of Vesicular-Arbuscular Mycorrhiza (VAM).

(4 × 2 = 8 weightage)**Section B (Short Essay Type Questions)***Answer any **four** questions.**Each question carries 3 weightage.*

8. Write briefly on the ecological significance of lichens.
9. Give an account of spore dispersal in fungi.
10. Write a short account on the morphology of bacteria.
11. Discuss the economic importance of cyanobacteria.

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12. Describe the symptoms of powdery mildew of rubber.
13. Briefly explain the role of enzymes in pathogenesis.
14. Write short notes on fungal nutrition types.

(4 × 3 = 12 weightage)

Section C (Long Essay Type Questions)

*Answer any **two** questions.*

Each question carries 5 weightage.

15. Write an essay on Mycorrhiza and its ecological significance.
16. Describe the life cycle and replication of TMV.
17. Describe the disease cycle and management of bacterial blight of paddy.
18. Explain the industrial production of antibiotics and vitamins.

(2 × 5 = 10 weightage)