Reg.No	
Name.	

## SECOND SEMESTER B.Sc. DEGREE EXAMINATION, APRIL 2023 (Regular/Improvement/Supplementary)

#### **BOTANY**

GBOT2B02T: MICROBIOLOGY, MYCOLOGY, LICHENOLOGY & PLANT PATHOLOGY

Time: 2 Hours Maximum Marks: 60

# SECTION A: Answer the following questions. Each carries *two* marks. (Ceiling 20 Marks)

- 1. Write any two examples for the role of bacteria in agriculture.
- 2. Write down the difference between episome and mesosome.
- 3. Differentiate between lophotrichous and amphitrichous bacterium.
- 4. Name any two diseases caused by Pythium.
- 5. What are rhizomrophs? List out its functions.
- 6. Describe VAM.
- 7. What are rhizines?
- 8. What is mycobiont? Mention its role.
- 9. What are Koch's postulates?
- 10. What are the four major aspects of Plant pathology?
- 11. Write down the symptoms of blast of paddy.
- 12. Comment on the control measures employed for checking bunchy top disease of banana.

## SECTION B: Answer the following questions. Each carries *five* marks. (Ceiling 30 Marks)

- 13. What is SCP? Write examples, advantages and disadvantages.
- 14. Give an account on the structure of bacterial flagella and classification of bacteria based on flagellation.
- 15. List out the salient features of Mastigomycotina
- 16. Explain the role of fungus in agriculture.
- 17. Describe bioremediation with special reference to lichens.
- 18. Comment on the various levels of parasitism depending upon the nature of nutritional level.
- 19. Write down the causative organisms, symptoms and control measures of Koleroga of areca palm.

### SECTION C: Answer any one question. Each carries ten marks.

- 20. Write an essay on the structure and reproduction of bacteriophages.
- 21. Explain the vegetative structure and reproductive methods of Aspergillus.

 $(1 \times 10 = 10 \text{ Marks})$