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R – 2783

Reg. No. :

Name :

Second Semester B.Sc. Degree Examination, April 2023

Botany

**Part III: Paper II : MICROBIOLOGY, PHYCOLOGY, MYCOLOGY AND
PLANT PATHOLOGY**

(1999 Scheme)

Time : 3 Hours

Max. Marks : 50

Answer may be written either in English or in Malayalam.
Draw diagrams wherever necessary.

SECTION – A

I. Answer any **ten** of the following:

1. Conjugation
2. TMV
3. Biofertilizer
4. Mycoplasma
5. Heterocyst
6. Dwarf male
7. Coenocytic algae
8. Agar
9. Apothecium
10. Budding
11. Litmus

P.T.O.



12. Two edible mushrooms
13. Vitavax
14. Biological Control
15. Necrosis

(10 × 1 = 10 Marks)

SECTION – B

II. Answer **any ten** of the following

16. Actinomycetes
17. HIV
18. Recalcitrants
19. Algal blooms
20. Plaque
21. Synzoospore
22. Receptacle in *Sargassum*
23. Significance of *Chlorella*
24. Rhizines
25. Chlamydospore
26. Hyphomycetes
27. Dead man's fingers
28. Rot of Ginger
29. Quarantine
30. Mosaicism

(10 × 2 = 20 Marks)



SECTION – C

III. Answer **any two** of the following

31. Critically comment the role of microbes in nitrogen cycle.
32. Explain the structure of globule in *Chara*.
33. Describe conidia formation in *Penicillium*.
34. Describe the classification of diseases based on causative organism.

(2 × 4 = 8 Marks)

SECTION – D

IV. Answer **any one** of the following

35. With a labelled diagram explain the structure of a bacteriophage.
36. Describe the etiology, symptoms, and control measures of citrus canker.

(1 × 4 = 4 Marks)

SECTION – E

v. Write **any one** of the following:

37. Critically comment on the applications of microorganisms in industrial microbiology.
38. Describe the reproduction in *Polysiphonia*.
39. Briefly comment on different types of spores produced by *Puccinia*.

(1 × 8 = 8 Marks)

