

8. Describe the main features of structure and life history of *Phytophthora*. 8

9. Write notes on the following :

(a) Fairy rings in *Agaricus* 4

(b) Types of thalli in lichen. 4



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28831

B.Sc. EXAMINATION, 2025

(First Semester)

BOTANY

Paper I

Diversity of Microbes

Time : 3 Hours]

[Maximum Marks : 40

Note : Attempt *Five* questions in all, selecting *two* questions from each Unit. Q. No. **1** is compulsory.

(Compulsory Question)

1. Explain the following : 1×8=8

(i) Why are viruses not considered living ?

- (ii) Give the constituent of cell wall of bacteria.
- (iii) Name the photosynthetic pigments of cyanobacteria.
- (iv) Name two algae which form algal bloom in water ?
- (v) Coenobium.
- (vi) Name a species of fungus which is a source of antibiotic ?
- (vii) Name the causal organism of black rust of wheat.
- (viii) Mycelium.

Unit I

2. Write short notes on the following :

- (a) Conjugation 4
- (b) Cyanobacteria. 4

- 3. Give a general review of range of thallus structure in algae. 8
- 4. Discuss the process of sexual reproduction in nannandrous species of *Oedogonium*. 8
- 5. Write notes on the following :
 - (a) Asexual reproduction in bacteria 4
 - (b) Plurilocolar sporangium. 4

Unit II

- 6. Describe the structure and multiplication of bacteriophages. 8
- 7. Discuss the various methods of sexual reproduction in fungi. 8