

D 114536

(Pages : 2)

Name.....

Reg. No.....

**FIRST SEMESTER M.Sc. DEGREE (REGULAR/SUPPLEMENTARY)  
EXAMINATION, NOVEMBER 2024**

(CBCSS)

Botany

BOT 1C 02—MYCOLOGY, LICHENOLOGY, MICROBIOLOGY AND PLANT PATHOLOGY

(2019 Admission onwards)

Time : Three Hours

Maximum : 30 Weightage

**Part A**I. Write short answers/notes on any *four* questions. Each answer not to exceed *five sentences* :

- 1 What are different types of spores present in fungi ?
  - 2 What is Vesicular Arbuscular Mycorrhiza ? Write its economic significance.
  - 3 What are salient features Zygomycota ? Give an example.
  - 4 Give an account on structural details of T4 phage.
  - 5 What are antibiotics and vaccines ?
  - 6 Explain Koch's postulates.
  - 7 Write causative agent, symptoms and control measures of powdery mildew of rubber.
- (4 × 2 = 8 weightage)

**Part B**II Answer any *four* of the following. Each answer not exceed 250 words :

- 8 Describe nutritional aspects of fungi.
- 9 What are distinguishing features of Basidiomycota ? Add a note on its important affinities
- 10 Give an outline on classification of fungi by Alexopoulos.
- 11 Prepare short notes on :
  - a) Food preservation ;
  - b) Bioremediation ; and
  - c) Prions.

**Turn over**

- 12 Explain salient features cyanobacteria. Add a note on economic importance of cyanobacteria.
- 13 Describe various plant defense mechanisms.
- 14 Give an elaborate account on host parasite interaction.

(4 × 3 = 12 weightage)

### Part C

III. Answer any *two* questions. Each answer not to exceed 500 words :

- 15 Illustrate ultrastructure, organization and mode of reproduction in fungi.
- 16 Give an account on systematics, thallus structure and economic importance of lichens.
- 17 What are major features of plant viruses ? Illustrate structure of TMV.
- 18 Explain important biotic and abiotic causes of plant diseases.

(2 × 5 = 10 weightage)