

2003001104020001
EXAMINATION FEBRUARY-MARCH 2024
BACHELOR OF SCIENCE (FOURTH SEMESTER)
FUNDAMENTALS OF MYCOLOGY-LEVEL 2

[Time: As Per Schedule]

[Max. Marks: 50]

Instructions:

1. Fill up strictly the following details on your answer book

- a. Name of the Examination : **BACHELOR OF SCIENCE (FOURTH SEMESTER)**
- b. Name of the Subject : **FUNDAMENTALS OF MYCOLOGY LEVEL 2**
- c. Subject Code No : **2003001104020001**

2. Sketch neat and labelled diagram wherever necessary.
3. Figures to the right indicate full marks of the question.
4. All questions are compulsory.

Seat No:

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Student's Signature

Q.1 Write answers [Any Four]:

8

- A. Write down the three forms of occurrence of hyphae.
- B. Define: Mitosporic fungi
- C. Write characteristics of sclerotia.
- D. Classify fungi based on their virulence.
- E. Give any two importance of asexual reproduction in fungi.

Q.2 Attempt [Any Two]:

14

- A. Write a note on types of fungal tissues with examples.
- B. The place of fungi in "Tree of life".
- C. Explain in detail about the nutrient translocating organ in fungi.

Q.3 Explain in detail [Any Two]:

14

- A. Note on: physico-chemical factor affecting growth of fungi.
- B. Describe how fungal pathogens are used as biological control agents and the advantages of using such bio-control formulations with examples.
- C. Write a note on- Cellular structures targeted by antifungal agents.

Q.4 Attempt Any two of the following:

14

- A. Describe sexual and asexual reproduction in *Neurospora crassa*.
- B. Note on fungal metabolites.
- C. Significant features in the life cycle of Basidiomycota.
