

2003001104020001
EXAMINATION SEPTEMBER 2024 (ATKT EXAM)
BACHELOR OF SCIENCE (BIO TECHNOLOGY) (FOURTH SEMESTER)
FUNDAMENTALS OF MYCOLOGY

[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 (BIO TECHNOLOGY) (FOURTH SEMESTER)**
- b. Name of the Subject : **FUNDAMENTALS OF MYCOLOGY**
- 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. Define: Choanoflagellates
- B. Example of Psychrophilic fungi.
- C. What is dimorphism?
- D. Give example of synthetic fungicides used to control plant disease and their mechanism of action.
- E. Write chemical composition of fungal cell-wall and cell membrane.

Q.2 Attempt Any Two:

14

- A. Characteristics of "Super fungi" and description of asexual and sexual reproduction cycle.
- B. Morphology of Yeast and Fungi.
- C. Note on Cellular Reproduction.

Q.3 Explain in detail Any Two:

14

- A. The difference between yeast and mould on the basis of their cell wall composition.
- B. In details: organic and inorganic fungicide.
- C. Write brief on fungi in biotechnology.

Q.4 Attempt Any Two of the following:

14

- A. Explain in detail about sclerotia and its importance. Give examples of ecologically diverse sclerotium- forming fungi.
- B. Explain how environmental and biological factors are managed to control growth of fungal pathogens.
- C. Explain life cycle of yeast with diagram.
