

2025

(FYUGP)

(2nd Semester)

BOTANY

(MAJOR)

Paper : BCC-03

(Mycology and Phytopathology)

Full Marks : 75

Pass Marks : 40%

Time : 3 hours

*The figures in the margin indicate full marks
for the questions*

1. Give an outline classification of fungi by Ainsworth. 15

Or

Write notes on the following : 7½×2=15

- (a) Slime molds
- (b) General characteristics and nature of association in Lichens

(2)

2. Give an illustrated account on the life cycle of *Phytophthora* with diagram. 15

Or

Write notes on the following : $7\frac{1}{2} \times 2 = 15$

- (a) General characteristics of Zygomycota and Chytridiomycota
- (b) Types of thallus in *Synchytrium*

3. Write notes on the following : $7\frac{1}{2} \times 2 = 15$

- (a) Parasexuality
- (b) Life cycle of *Aspergillus*

Or

Describe the asexual and sexual reproduction of *Puccinia* with diagram. 15

4. Write notes on the following : $7\frac{1}{2} \times 2 = 15$

- (a) Fungi as food
- (b) Secondary metabolites

Or

Give a note on the application of fungi in nanotechnology. 15

(3)

5. Write a note on disease cycle and environmental relation. 15

Or

Write notes on the following : $7\frac{1}{2} \times 2 = 15$

- (a) Papaya mosaic virus
- (b) Leaf wilt of tomato

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