

4/BOT-250(Th) Syllabus-2023

2 0 2 5

(May-June)

FYUP : 4th Semester Examination

BOTANY

(Mycology and Plant Pathology)

(BOT-250)

(Theory)

Marks : 56

Time : 3 hours

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

Answer Question No. **1** which is compulsory and **four**
from the rest, selecting **one** from each Section

1. Write short notes on the following : $4 \times 4 = 16$

- (a) General characteristics and common genera of Ascomycotina
- (b) Types of sexual spores in fungi
- (c) Citrus canker
- (d) Economic importance of fungi

(2)

SECTION—I

2. Give an account of Ainsworth (1973) classification of fungi mentioning identifying characters with examples. 10
3. Write notes on the following : 5+5=10
- (a) Range of vegetative structure of fungi
 - (b) Different methods of plasmogamy in fungi

SECTION—II

4. Describe with the help of suitable diagrams the life cycle of *Phytophthora*. 10
5. What are lichens? Discuss in detail the growth forms of lichens giving suitable examples and diagrams. 2+8=10

SECTION—III

6. Write explanatory notes on the following : 5+5=10
- (a) Symptoms of plant diseases
 - (b) Physical methods of plant disease control
7. Describe the disease symptoms, disease cycle and control measures of white rust of crucifers. 3+5+2=10

(3)

SECTION—IV

8. Write notes on the following : 5+5=10
- (a) Symptoms and disease cycle of tobacco mosaic disease
 - (b) Asexual reproduction in *Fusarium*
9. Explain the following : 5+5=10
- (a) Basidiocarp of *Agaricus*
 - (b) Early blight of potato
