

4/BOT-250(Th) Syllabus-2023

2026

(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.

Section-III

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

- (a) Clamp connection
- (b) Zoospores in Mastigomycotina
- (c) Koch's postulate
- (d) Sclerotium

26D/1640

(Turn Over)

SECTION—I

2. Describe the different methods of sexual reproduction in fungi. Support your answer with diagrams. $6+4=10$
3. Write notes on the following : $5 \times 2 = 10$
 - (a) Active and passive liberation of fungal spores
 - (b) Types of fungi based on nutrition

SECTION—II

4. With the help of suitable diagrams, describe the development of ascus and ascospores. $4+6=10$
5. Write notes on the following : $5 \times 2 = 10$
 - (a) Growth forms of lichens
 - (b) Aplanospore formation in *Rhizopus*

SECTION—III

6. Describe the disease symptoms, disease cycle and control measures of angular leaf spot disease of cotton. $4+2+4=10$
7. Write notes on the following : $5 \times 2 = 10$
 - (a) Plant quarantine measures
 - (b) Biological control of plant diseases

SECTION—IV

8. Describe the beneficial economic importance of fungi, giving suitable example. 7+3=10
9. Briefly describe the following : 5×2=10
- (a) Asexual reproduction in *Erysiphe*
 - (b) Structure of uredospore and teliospore of *Puccinia*
