

**2024/TDC (CBCS)/EVEN/SEM/
BOTHCC-201T/027**

TDC (CBCS) Even Semester Exam., 2024

**BOTANY
(2nd Semester)**

Course No. : BOTHCC-201T

(Mycology & Phytopathology)

Full Marks : 50

Pass Marks : 20

Time : 3 hours

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

UNIT—I

1. Answer any *two* of the following : 2×2=4

(a) Name the constituents of the cell wall of fungi.

(b) What do you understand by autotrophic and heterotrophic nutrition?

(c) Mention the modes of nutrition in fungi.

2. Answer any *one* question : 6

(a) Discuss in detail the classification of fungi.

(2)

- (b) Discuss in detail, with neat sketches, the thallus organization in fungi.

UNIT—II

3. Answer any two of the following : $2 \times 2 = 4$

- (a) Define parasexuality with example.
(b) Name the types of fruiting bodies found in fungi.
(c) What are the characteristic features of *Saccharomyces*? Mention its economic importance.

4. Answer any one question : 6

- (a) Discuss the thallus organization, reproduction and life cycle of *Rhizopus*.
(b) Discuss in brief the life cycle and classification of *Penicillium*.

UNIT—III

5. Answer any two of the following : $2 \times 2 = 4$

- (a) Mention the types of lichen found in nature.
(b) Define mycorrhiza with example.
(c) Mention the characteristics of lichen.

(3)

6. Answer any one question : 6

- (a) What do you understand by symbiotic association? Discuss the nature of association between an algal and fungal partner.
(b) Discuss in detail the reproduction in lichen.

UNIT—IV

7. Answer any two of the following : $2 \times 2 = 4$

- (a) Name two mycotoxins.
(b) What is the importance of mycoprotein?
(c) What are secondary metabolites? Give example.

8. Answer any one question : 6

- (a) Write a note on application of fungi in food industry.
(b) Discuss the role of fungi in biotechnology.

UNIT—V

9. Answer any two of the following : $2 \times 2 = 4$

- (a) Name a bacterial disease of plant with example.
(b) What is integrated control of disease?

- (c) Mention a fungal disease of potato and its causal organism.

6

10. Answer any one question :

- (a) Write the general symptom, causal organism and life cycle of black stem rust of wheat.
- (b) Write a note on the role of quarantine in prevention of plant disease.
