

**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.

24J/664

( Continued )

( 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?

24J/664

( Turn Over )

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

10. Answer any one question :

6

- (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.

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