



**2023/TDC(CBCS)/EVEN/SEM/
BOTHCC-201T/222**

TDC (CBCS) Even Semester Exam., 2023

**BOTANY
(Honours)**

(2nd Semester)

Course No. : BOTHCC-201T

(Mycology and Phytopathology)

Full Marks : 50

Pass Marks : 20

Time : 3 hours

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

SECTION—A

Answer any *ten* of the following questions : $2 \times 10 = 20$

1. Define fungi with examples. What is chitin?
2. Mention the salient features of parasites. Give example.
3. What is heterothallism? Who discovered it?
4. Give the structure of a holocarpic fungus.



5. Mention the types of furling bodies found in fungi.
6. Name two ascomycetes fungi and their uses.
7. Mention the types of lichens and its ecological importance.
8. What is the function of isidium in Lichen? Name one dye-yielding lichen.
9. Define mycorrhiza with example. What is VAM?
10. Mention two roles of fungi in biotechnology.
11. Name two mycoproteins and their roles.
12. What do you understand by secondary metabolites?
13. Mention two general symptoms of rust disease and name the causal organism of the disease.
14. Mention the causal organism of late blight of potato.
15. Draw and label of TMV.

SECTION—B

Answer any *five* of the following questions : $6 \times 5 = 30$

16. Give a detailed classification of fungi.
17. Write short notes on : $3+3=6$
 - (a) Nutrition in fungi
 - (b) Affinities of fungi with plants and animals
18. Discuss with a neat diagram thallus organization in fungi.
19. Discuss in brief the life cycle of *Saccharomyces*. Classify with its systematic position.
20. Write notes on : $3+3=6$
 - (a) General characteristics of lichen and economic importance of lichen
 - (b) Reproduction in lichen
21. What do you understand by symbiosis? Mention the nature of association of algal and fungal partners.
22. Write in brief the process of mushroom cultivation.



(4)

23. Write notes on : 3+3=6
(a) Biofertilizer
(b) Biological control
24. Discuss in brief the geographical distribution of diseases.
25. What is the role of quarantine in prevention of plant disease?
