

2023

( CBCS )

( 2nd Semester )

BOTANY

( Honours )

Paper No. : BCC-03

( **Mycology and Phytopathology** )

Full Marks : 75

Pass Marks : 40%

Time : 3 hours

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

Answer **five** questions, taking **one**  
from each Section

SECTION—I

1. Write short notes on the following :  $7\frac{1}{2} \times 2 = 15$

(a) General characteristics of fungi

(b) Classification of fungi (Ainsworth  
system)

**OR**

2. Write notes on the mode of reproduction in  
Chytridiomycota and Zygomycota.  $7\frac{1}{2} + 7\frac{1}{2} = 15$

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( Turn Over )

SECTION—II

3. Write short notes on the following :  $7\frac{1}{2}\times 2=15$

- (a) Heterokaryosis and parasexuality
- (b) Sexual and asexual fruiting bodies of Ascomycota

OR

4. What is bioluminescence? Discuss the mechanism and uses of bioluminescence.

$1+(7+7)=15$

SECTION—III

5. What are the characteristics of slime molds? Write a note on the types of plasmodia in allied fungi.

$7\frac{1}{2}+7\frac{1}{2}=15$

OR

6. Write notes on the following :  $7\frac{1}{2}\times 2=15$

- (a) Classification and characteristics of Albugo
- (b) Life cycle of phytophthora

SECTION—IV

7. Define mycorrhiza. Write a note on the different types of mycorrhiza and their significance.

$1+(7+7)=15$

( 3 )

OR

8. Write short notes on any *two* of the following :  $7\frac{1}{2} \times 2 = 15$

- (a) Secondary metabolites
- (b) Mycotoxins
- (c) Application of fungi in food industry

SECTION—V

9. Write short notes on any *two* of the following :  $7\frac{1}{2} \times 2 = 15$

- (a) Host-Pathogen relationships
- (b) Role of quarantine
- (c) Citrus Canker

OR

10. What is fungal disease? Identify the common fungal diseases in plants along with their signs and symptoms.  $2+13=15$

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