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 : 7½×2=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. 7½+7½=15

SECTION—II

3. Write short notes on the following : 7½×2=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. 7½+7½=15

OR

6. Write notes on the following : 7½×2=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

OR

8. Write short notes on any *two* of the following : 7½×2=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 : 7½×2=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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