

2023
B.A./B.Sc.
Second Semester
CORE – 3
BOTANY
Course Code: BOC 2.11
(Mycology & Phytopathology)

Total Mark: 70
Time: 3 hours

Pass Mark: 28

Answer five questions, taking one from each unit.

UNIT-I

1. Give an account on the classification of fungi. Give a brief account on the economic importance of fungi. 10+4=14
2. Give an account on the following: 7×2=14
 - (a) General characteristics of fungi
 - (b) Life cycle of *Rhizopus*

UNIT-II

3. Give a general account on the distinctive features of Ascomycota. Write a note on the life cycle of *Saccharomyces* with diagram. 5+6+3=14
4. Give a general account on the distinctive features of Basidiomycota. Write a note on the life cycle of *Puccinia* with diagram. 5+6+3=14

UNIT-III

5. Write an account on the following: 7×2=14
 - (a) Types of plasmodia in slime molds
 - (b) General characteristics of slime molds
6. Give an account on the following: 7×2=14
 - (a) Growth forms and range of thallus structure in lichens
 - (b) Mycorrhizal associations and their significance

UNIT-IV

7. Give an account on the role of fungi in 7×2=14
(a) biological control
(b) pharmaceutical industry
8. Give an account on the role of fungi in food industry with a specific example. 14

UNIT-V

9. Give an account on the symptoms and control methods of 7×2=14
(a) tobacco mosaic virus
(b) citrus canker
10. Write notes on the following: 7×2=14
(a) Classification of plant diseases based on causal agents
(b) Cultural methods of prevention and control of plant diseases
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