

**2022**  
**B.A./B.Sc.**  
**Second Semester**  
CORE – 3  
**BOTANY**  
*Course Code: BOC 2.11*  
(Mycology & Phytopathology)

*Total Mark: 70*

*Pass Mark: 28*

*Time: 3 hours*

*Answer five questions, taking one from each unit.*

**UNIT-I**

1. On what basis is the classification of fungi done? Give the classification of fungi in detail. 2+12=14
2. Give a detailed account of the thallus, asexual and sexual reproduction of *Rhizopus*. 3+5+6=14

**UNIT-II**

3. Describe in brief the life cycle of *Aspergillus* with graphical illustration. 14
4. (a) Write a note on thallus structure of *Puccinia* and mention the stages found in different host plant. 7  
(b) Write a note on bioluminescent fungi and fairy rings. 7

**UNIT-III**

5. Define lichens. Give the composition, nature, habit, and habitat of lichens. 2+12=14
6. Discuss the types of lichens. With a labelled diagram, explain in detail the internal structures of lichen. 6+8=14

#### UNIT-IV

7. Give an account of the following: 7×2=14  
(a) Biopesticides  
(b) Single-celled protein (SCP)
8. Give an account of the important role of fungi in biotechnology with some specific examples. 14

#### UNIT-V

9. Give an account of the following: 7×2=14  
(a) Effect of climatic conditions on plant diseases  
(b) Symptoms caused by fungi
10. Give a detailed account of the different ways of plant disease control. 14
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