

**2024**  
**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. Write notes on the following: 7×2=14
  - (a) Economic importance of fungi
  - (b) Mode of nutrition in fungi
2. Describe the characteristic features of Oomycetes. Give an account of the life cycle of *Pythium* with a neatly labelled diagram. 7+7=14

**UNIT-II**

3. Write a note on the general characteristics and sexual fruiting bodies of ascomycetes. 7+7=14
4. Give an account of the life cycle of *Agaricus* with a diagram. Add a short note on bioluminescence. 7+3+4=14

**UNIT-III**

5. Write notes on the following: 7×2=14
  - (a) Classification of slime moulds
  - (b) General characteristics of lichens
6. What is mycorrhiza? Write a short note on the types of mycorrhizae and its role in agriculture. 2+8+4=14

#### UNIT-IV

7. Give an account on the following: 7×2=14  
(a) Application of fungi in agriculture  
(b) Application of fungi in food industry
8. Give a detailed account on the role of fungi in biotechnology supporting your answer with relevant examples. 14

#### UNIT-V

9. Give an account on the following: 7×2=14  
(a) General symptoms of fungal plant diseases  
(b) Prevention and control of plant diseases
10. Give an account on the symptoms of the given diseases: 7×2=14  
(a) Black stem rust of wheat  
(b) Rust of tea
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