

**2022**  
**M.Sc.**  
**Second Semester**  
CORE – 06  
**BOTANY**  
*Course Code: MBOC 2.21*  
(Mycology & Plant Pathology)

*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 following: 7×2=14
  - (a) General characteristics of fungi
  - (b) Asexual reproduction in fungi
  
2. Give an account on the following: 7×2=14
  - (a) Fungal classification by Ainsworth
  - (b) Economic importance of lichens

**UNIT-II**

3. Write notes on the following: 7×2=14
  - (a) Parasexuality in fungi
  - (b) Economic importance of fungi
  
4. Give an account of the specialized somatic structures of fungi. 14

**UNIT-III**

5. Give an account of the various methods of plant disease control. 14
  
6. Write notes on the following: 7×2=14
  - (a) Koch's postulates
  - (b) Importance of field and laboratory investigation of disease

#### UNIT-IV

7. Give an account of the effect of temperature, pH, and moisture in the development of plant diseases. 14
8. Write on the role of enzymes and toxins in pathogenesis. 14

#### UNIT-V

9. Give an account of the symptoms, etiology, disease cycle, and management for the early blight of potato. 14
10. Write notes on symptoms and disease cycle of: 7×2=14
- (a) Ergot of bajra
  - (b) Rust of wheat
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