2024
M.Sc.
Second Semester
CORE – 06
BOTANY
Course Code: MBOC 2.21
(Mycology & Plant Pathology)

Total Mark: 70   *Pass Mark: 28*
Time: 3 hours

Answer <u>five</u> questions, taking <u>one</u> from each unit.

UNIT–I

1. Give an account of the following: 7×2=14
   (a) Sexual reproduction in Fungi
   (b) Classification of fungi by Alexopoulus

2. Write a note on the general characteristics of Mastigomycotina. Briefly describe the life cycle of one fungus representing this sub-division along with diagram.   5+6+3=14

UNIT–II

3. Give an account of parasexuality and its significance.   10+4=14

4. Write notes on the following: 7×2=14
   (a) Economic importance of fungi
   (b) Wood decay fungi and their importance

UNIT–III

5. Give an account of the following: 7×2=14
   (a) General signs and symptoms of plant diseases
   (b) Identification of plant pathogens

6. Give a detailed account of the various methods of plant disease control.   14

UNIT–IV

7. Give an account of the mechanism of infection of plant diseases.   14

8. Write short notes on the following: $7\times2=14$
   (a) Effect of temperature and pH in the development of plant diseases
   (b) Role of enzymes in pathogenesis

UNIT–V

9. Give an account of the symptoms, etiology, disease cycle and management of loose smuts of wheat with well labelled diagram. $4+10=14$

10. Give an account of the symptoms and disease cycle of the following: $7\times2=14$
    (a) Early blight of potato
    (b) White rust of crucifers

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