

**A-0039**

**Total Pages : 3**

**Roll No. ....**

**MBOT-608**

**M.Sc. BOTANY (MSCBOT)**

**(Plant Pathology)**

**4th Semester Examination, Session December 2024**

**Time : 2:00 Hrs.**

**Max. Marks : 35**

*Note :- This paper is of Thirty Five (35) marks divided into Two (02) Sections 'A' and 'B'. Attempt the questions contained in these Sections according to the detailed instructions given therein. Candidates should limit their answers to the questions on the given answer sheet. No additional (B) answer sheet will be issued.*

**Section-A**

**Long Answer Type Questions      2×9½=19**

*Note :-* Section 'A' contains Five (05) Long-answer type questions of Nine and Half (9½) marks each. Learners are required to answer any *two* (02) questions only.

1. Give the classification of plant diseases in detail.
2. Write a detailed account on defense mechanism formed in response to infection by pathogen.
3. What do you understand by toxins ? Describe the classification and effects of toxins on plant tissue.
4. What do you understand by plant disease ? Write a detail note on the various methods of plant disease management.
5. Describe the symptoms, causal organisms and disease control management of one bacterial and one viral diseases of plants which you have studied.

### **Section–B**

#### **Short Answer Type Questions      4×4=16**

**Note :-** Section 'B' contains Eight (08) Short-answer type questions of Four (04) marks each. Learners are required to answer any *four* (04) questions only.

1. Describe the Koch's postulates in brief.
2. Discuss the history of plant pathology in India.
3. Describe systematic fungicides with suitable examples.

4. Write a short note on Ergot of rye.
5. What is the economic importance of *Gibberella fujikurroi*.
6. Describe the symptoms appear when plant encountered fungal diseases.
7. What is a physiological plant disease ?
8. Write about the difference between rust and smut.

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