

**A-1225**

Total Pages : 3

Roll No. ....

**MBOT-608**

**M.Sc. Botany (MSCBOT)**

**Plant Pathology**

Examination February, 2026

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.

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( 1 )

P.T.O.

1. What do you understand by pathogenesis ? Write about pre-penetration, penetration and post penetration events.
2. Define the term disease resistance. Describe different types of disease resistance found in host plant.
3. Give a detailed account of the structure, disease cycle and control measures of rust disease.
4. What is blight disease ? Describe general characteristics, disease cycle and control measures of late blight disease.
5. Write explanatory notes on any *two* of the following :
  - (a) Phytoplasma disease
  - (b) Plant quarantine
  - (c) Mosaic disease

### **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. Write short notes on any *two* of the following :
  - (a) Types of Pathogens.
  - (b) Antibiotics
  - (c) Use of resistant varieties for disease control
2. What is Smut disease ? Discuss causal organism and control measures of loose smut of wheat.
3. Write a short note on any one disease of Pulses and its control.
4. Describe various environmental factors which affect disease development.
5. Describe the general characteristics and control measures of powdery mildew disease.
6. Write briefly about anthracnose of mango.
7. What are phytoalexins ? Give their role in plant disease.
8. Describe disease cycle and control measures of any one bacterial disease.

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