

**S-45**

Total Pages : 3

Roll No. ....

# **MBOT-608**

## **Plant Pathology**

M.Sc. Botany (MSCBOT)-20

4th Semester Examination, 2022 (Dec.)

**Time : 2 Hours]**

**[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.

### **SECTION-A**

#### **(Long Answer Type Questions)**

**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.

(2×9½=19)

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. Write explanatory note on any *two* of the following :
  - (a) Viral diseases.
  - (b) Phytoalexins.
  - (c) Biological control of plant disease.
4. Give a detailed account of the structure, disease cycle and control measures of rust disease.
5. What is blight disease? Describe general characteristics, disease cycle and control measures of late blight disease.

**SECTION-B**  
**(Short Answer Type Questions)**

**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. (4×4=16)

1. Define gene for gene concept with suitable examples.
2. Describe various factors affecting disease development in plants.
3. Discuss primary and secondary inoculums in brief.

4. Write about various symptoms of plant disease.
  5. Write short note on any *two* of the following :
    - (a) Types of Pathogens.
    - (b) Citrus canker disease.
    - (c) Use of resistant varieties for disease control.
  6. Differentiate between any *two* of the following :
    - (a) Rust and smut disease.
    - (b) Exclusion and eradication method of disease control.
    - (c) Systemic and non-systemic fungicides.
  7. Discuss any diseases of Pulses and their control.
  8. What is Smut disease ? Discuss causal organism and control measures of loose smut of wheat.
-

