

P-53

Total Pages : 3

Roll No.

MBOT-608

Plant Pathology

M.Sc. Botany (MSCBOT)

4th Semester Examination, 2023 (June)

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. Candidates should limit their answer to the questions on the given answer sheet. No additional (B) answer sheet will be issued.

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 symptoms? Give a detailed account on symptoms caused by fungal pathogen.

2. What is rust disease? Give an account of structure, disease cycle and control measures of black rust of wheat disease.
3. Write explanatory note on any *two* of the following :
 - (a) Phytoplasma disease.
 - (b) Plant quarantine.
 - (c) Mosaic disease.
4. Describe cultural, chemical and biological practices to control plant disease in detail.
5. Describe various protection mechanism shown by plants during disease development.

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. Discuss the history of plant pathology in India.
2. Explain plant-microbe interaction in detail with examples.
3. Describe various environmental factors which affect disease development.

4. Write short note on any *two* of the following :
 - (a) Inoculum.
 - (b) Systemic fungicides.
 - (c) Integrated pest management.
 5. Discuss any two diseases of vegetables and their control.
 6. Describe disease cycle and control measures of any one bacterial disease.
 7. What are phytoalexins ? Give their role in plant disease.
 8. Describe the general characteristics and control measures of powdery mildew disease.
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