Roll No. ------------------

**BOT-553**

**Applied Mycology and Plant Pathology**

M.Sc. Botany (MSCBOT)

2ndYear Examination 2024 (Dec.)

**TIME: 2 Hours Max Marks: 70**

Note: This paper is of Seventy (70) 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**

**Note: Section ‘A’ contains Five (05) long-answer-type questions of Nineteen (19) marks each. Learners are required to answer any two (02) questions only.**

 **(2×19=38)**

1- Describe in detail about plant diseases of pulses.

2- Give a detailed account of different modes of reproduction in fungi.

3. Write in detail about control measures of plant diseases.

4. What are Biopesticides? Give an account of fungal biopesticides.

5. Explain the symptoms, causal organism, disease cycle and control measures of loose smut of wheat.

**SECTION – B**

**Short – answer – type questions**

**Note: Section ‘B’ contains eight (08) short- answer type questions of Eight (08) marks each. *Learners are required to answer any Four (04) questions only.* (4×8=32)**

1. Discuss in short about industrial production of Penicillin.

2. Discuss about the nutritive value of edible mushrooms.

3. Write a short note on symptoms of Viral diseases in plants.

4. Describe symptoms of plant diseases caused by Powdery mildews.

5. Explain how you can relate fungi with pollution.

6- Write a short note on Vesicular Arbuscular Mycorrhizae (VAM).

7- Write symptoms of diseases caused by Nematodes in plants.

8- Describe any one Bacterial disease of any fruit.