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Roll No.....

**BOT-553**

**Applied Mycology and Plant Pathology**

M.Sc. BOTANY (MSCBOT- 12/13/16/17)

Second Year, Examination, 2019

Time: 03 Hours

Max. Marks: 80

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Note: This paper is of Eighty (80) 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 fifteen (15) marks each. Learners are required to answer any three (03) questions.

(3×15=45)

1. What are primary and secondary metabolites of fungi? Write a detailed note on the production of organic acids from fungi.
2. Write an essay on control of plant diseases.

3. Describe the biotechnological applications of fungi in detail.
4. Describe symptoms of plant diseases caused by bacteria. Write detailed account on causal organism, disease cycle and control measures of any three bacterial plant diseases.
5. Define mycorrhizae and its types. Describe the role and significance of mycorrhizae.

### **SECTION-B**

(Short Answer Type Questions)

Note: Section 'B' contains eight (08) short-answer type questions of seven (07) marks each learners are required to answer any five (05) question only.

(5×7=35)

1. Give a brief account on effect of environment in disease development.
2. Discuss the role of fungi in biodegradation.
3. Describe the symptoms, causal organism, disease cycle and control measures of any one plant disease of fruit.

4. Write a note on medicinal value of mushroom.
5. Enlist only name of the disease, causal organisms and host, of any seven plant diseases of vegetables.
6. Briefly describe the cell structure of fungi.
7. Write a short note on the symptoms of nematode diseases in plants.
8. Explain the role of fungi in the control of nematodes.

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