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BOT-553

Applied Mycology and Plant Pathology

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

Second Year, Examination 2021 (Winter)

Time: 2 Hours

Max. Marks: 80

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 Twenty (20) marks each. Learners are required to answer any two (02) questions only.

[2 x 20 = 40]

Q.1. Define phytoalexins. Give their examples and role in defense against plant disease.

P.T.O.

- Q.2. Discuss the different methods for control of plant diseases.
- Q.3. What are the primary and secondary metabolites of fungi? Write a detailed note on the production of antibiotic from fungi.
- Q.4. Give the name of disease, causal organisms, symptoms and host of any ten plant diseases.
- Q.5. What do you understand by symptoms? Give a detailed account of symptoms caused by pathogens.

Section – B

(Short-answer-type questions)

Note: Section 'B' contains Eight (08) short-answer-type questions of Ten (10) marks each. Learners are required to answer any Four (04) questions only.

[4 x 10 = 40]

- Q.1. Give an outline of the classification of fungi.
- Q.2. Fungi as biocontrol agents.

- Q.3. Nutritional value and different steps for the cultivation of mushrooms.
- Q.4. Give an account of causal organism, symptoms, disease cycle and control measures of any two-mycoplasmal disease in plants.
- Q.5. Role of fungi in biodegradation.
- Q.6. Types of disease resistance in plants.
- Q.7. Define mycorrhiza. Write an extended note on types and significance of mycorrhiza.
- Q.8. How fungi used in biotechnology?
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