

BOT-553

APPLIED MYCOLOGY AND PLANT PATHOLOGY

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

Second Year, Examination-2020 (July)

Time Allowed : 2 Hours

Maximum Marks : 80

Note: This paper is of Eighty (80) marks divided into Two (02) sections A and B. Attempt the question 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. (2×20=40)

1. Write review on principal research in plant pathology carried out in the 19th Century.
2. Write a detailed account on the Mushroom cultivation and its medicinal value.

3. Write an essay on "Scope and techniques of fungal biotechnology".
4. Describe symptoms of different virus plant diseases. Write detailed account on causal organism, disease cycle and control measures of any two plant diseases caused by virus.
5. What do you understand by Pathogenesis? Describe the mechanism and different paths of infection in plants.

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. (4×10=40)

1. Describe the role of fungi as biopesticides with example.
2. Write a note on industrial production of Penicillin by fungi.
3. Describe symptoms of phytoplasma diseases in plants.

4. How do environmental factors affect the disease incidence and spread?
5. Give a brief account on diversity of fungi.
6. Write a note on industrial production of fungal enzymes.
7. Enlist only the name of disease, causal organisms and host, of any seven plant diseases caused by fungi.
8. Write a note on contribution of K.C. Metha in the field of Plant Pathology.
