

Exam. Code : 210001
Subject Code : 4894

M.Sc. Botany 1st Semester (Batch 2021-23)

FUNGI AND PLANT PATHOLOGY

Paper—BOT-C512

Time Allowed—3 Hours] [Maximum Marks—50

Note :—Attempt **FIVE** questions in all, selecting at least **ONE** question from each section. The **fifth** question may be attempted from any section. All questions carry equal marks.

SECTION—A

1. Give salient features and classify Mastigomycota up to order level. 10
2. Give an account of the structure and life cycle of the following :
(a) *Chytriomycetes*
(b) *Laboulbenia*. 2×5=10

SECTION—B

3. Write short notes on the following :
(a) Prediction of disease control decisions
(b) Plant Quarantine. 2×5=10
4. Give an account of the structure and life cycle of the following :
(a) *Polysporus*
(b) *Sporobolomyces*. 2×5=10

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(Contd.)

SECTION—C

5. Give an account of the symptoms, causal organism and control measures of the following plant diseases :
(a) Damping-off disease 2×5=10
(b) Late blight of potato. 2×5=10
6. Give an account of the symptoms, causal organism and control measures of the following plant diseases :
(a) Bacterial leaf blight of rice 2×5=10
(b) Papaya leaf curl. 2×5=10

SECTION—D

7. (a) Give an account of mycorrhizae and their role in agriculture and plant growth.
(b) Comment upon the contributions of E.J. Butler and W.M. Stanley. 2×5=10
8. Write detailed notes on the following :
(a) Parasexual cycle in fungi
(b) Enlist important institutes related to mycology and give at least 5 names of important plant pathology and mycology journals. 2×5=10

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