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Exam. Code : 210001 Subject Code: 3776

M.Sc. Botany 1st Semester

FUNGIAND PLANT PATHOLOGY

Paper-BOT-C512

Time Allowed—3 Hours]

[Maximum Marks—50

Note: — Attempt any five questions selecting at least one question from each Section. All questions carry equal marks.

SECTION-A

- Giving salient features, classify Mastigomycota up to order level. 10
- 2. Give an account of the structure and life cycle of the following:
 - (a) Taphrina
 - (b) Mycospharella.

 $2 \times 5 = 10$

SECTION-B

- Write short notes on the following: 3.
 - (a) Disease forecasting
 - (b) Defense mechanism in plant against pathogens.

 $2 \times 5 = 10$

- Give an account of the structure and life history of the 4 following:
 - (a) Ustilago
 - (b) Sclerotium.

 $2 \times 5 = 10$

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(Contd.)

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SECTION-C

- 5. Give an account of the symptoms, causal organism and control measures of the following plant diseases:
 - (a) Late blight of potato
 - (b) Powdery mildew of bajra.

 $2\times5=10$

- 6. Give an account of the symptoms, causal organism and control measures of the following plant diseases:
 - (a) Bacterial blight of rice
 - (b) Papaya leaf curl.

 $2 \times 5 = 10$

SECTION-D

- 7. (a) Give an account of the role of mycorrhizae in agriculture and plant growth.
 - (b) Comment upon the contributions of Robert Koch and W.M. Stanley. 2×5=10
- 8. Write detailed notes on the following:
 - (a) Heterothallism in Basidiomycetes
 - (b) Parasexual cycle.

 $2 \times 5 = 10$