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Exam. Code : 210001 Subject Code: 5370

M.Sc. (Botany) Ist Semester FUNGI & PLANT PATHOLOGY Paper—BOT-C-512

Time Allowed—3 Hours [Maximum Marks—50

SECTION-A

Note: - Answer all parts. Your answer should not exceed 4 lines each. $8 \times 1 = 8$

- Pseudoplasmodium 1.
- Heterokaryosis 2.
- 3. Appressorium
- Heteroecious rusts 4
- 5. Plasmodiophora
- Hymenium 6.
- Pathogenesis-related proteins
- Name any two journals related to plant pathology. 8.

SECTION-B

Note: - Attempt any SEVEN questions. Each question carries 3 marks. Your answer should not exceed $7 \times 3 = 21$ 2 pages.

Differentiate between cellular and plasmodial slime molds.

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- Explain the morphology and the process of reproduction. in Pilobolus.
- Briefly describe the structure and life history of 3. Protomyces macrosporus.
- 4. Write a brief note on the asexual reproductive structures of Deuteromycetes.
- 5. What is epidemiology? What are the various elements of a plant disease epidemic?
- With suitable diagrams, describe the symptoms and 6. disease cycle of tikka disease of groundnut. Also, name the causal organism.
- What is citrus canker? Suggest various control measures 7. for managing this disease.
- Describe the major symptoms of viral diseases. 8.
- What is ectomycorrhizae? Give two examples of 9. ectomycorrhizal fungi.
- 10. What are Koch's postulates?

SECTION-C

- Note: Attempt any THREE questions. Each question carries 7 marks. Your answer should not exceed 4 pages. $3 \times 7 = 21$
- 1. Enumerate the diagnostic features of the class Zygomycetes and explain the life cycle of *Pilobolus*.

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- 2. Enumerate the characteristics features of the class Ascomycetes and explain the life cycle of *Venturia inaequalis*.
- 3. What are systemic infections? Describe the symptomatology and management of bunchy top of banana disease.
- 4. What is disease forecasting? Explain it with suitable examples.
- 5. Write briefly on the following:
 - (a) Sex hormones produced by fungi.
 - (b) Diagnostic features of Gasteromycetes.

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