

**M.Sc. 1st Semester Examination, 2018**

**BOTANY**

**(Mycology and Plant Pathology)**

**Paper : BOT-102C(T)**

**Course ID : 11352**

**Time: 2 Hours**

**Full Marks: 30**

*The figures in the margin indicate full marks.*

*Candidates are required to give their answers in their own words  
as far as practicable*

**Group – A**

**Mycology**

1. Answer *any two* questions from the following: 1×2=2
  - (a) What is coprophilous fungi?
  - (b) What is parasexual cycle?
  - (c) What is ectomycorrhiza?
  - (d) Give the scientific name of one edible fungi from the class Ascomycetes.
2. Answer *any one* of the following: 5×1=5
  - (a) Describe with sketches the different spore types in *Puccinia*.
  - (b) Write down the role of 'Fungi' in antibiotic production.
3. Answer *any one* of the following: 8×1=8
  - (a) What is heterothallism? Write briefly the gradual degeneration of sex in fungi. 2+6=8
  - (b) Distinguish between Prosenchyma and Pseudoparenchyma type of hyphae modifications. Describe the cultivation process of *Volvariella* sp. 2+6=8

**Group – B**

**Plant Pathology**

4. Answer *any two* of the following: 1×2=2
  - (a) What is pathogenesis?
  - (b) Define epidemic diseases with example.
  - (e) Write down the biochemical nature of phytoalexins.
  - (d) Cite one example of disease producing algae with their respective host.

5. Answer *any one* of the following: 5×1=5
- (a) Write short note on chemical control of plant diseases.
  - (b) What is inoculum? Describe the different stages of disease cycle. 1+4=5
6. Answer *any one* of the following: 8×1=8
- (a) Describe the symptoms, causal organism, disease cycle and control measures of red rot of sugarcane. 2+1+3+2=8
  - (b) Describe briefly the biochemical defence mechanism of plants against diseases. 8
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