

2022

BOTANY

[Honours]

(B.Sc. Second Semester End Examination-2022)

PAPER-C3T

[MYCOLOGY AND PLANT PATHOLOGY]

Full Marks: 40

Time: 02 Hrs

*The figures in the right hand margin indicate marks
Candidates are required to give their answers in their own words as far
as practicable*

Illustrate the answers wherever necessary

1. Answer any five questions:

5x2=10

- a) What is helotism?
- b) What is bioluminescence?
- c) What is meant by fairy ring?
- d) Define dolipore septum.
- e) Write two characters of Chitridiophyla.
- f) What is disease triangle?
- g) Write the characteristic of a gord mycoherbecides?
- h) Write the importance of sclerotia that is produced by claviceps purpurea.

(2)

2. Answer any four of the followings: 4x5=20
- a. Schematically represent the sexual reproduction in *Rhizopus* sp.
What is somatogamy? 4+1
 - b. Distinguish between: 2.5+2.5
 - i. Endomycorrhizae and ectomycorrhizae
 - ii. Uredospore and teleutospore
 - c. What are phytoalexins and give two examples? How are phytoalexins synthesized? (1+2)+2
 - d. Define disease cycle and draw the disease cycle of early blight of potato. 2+3
 - e. Name two mycoproteins. Discuss the process of patulin production from fungi. 4+1
 - f) Classify lichens according to their thallus organization with suitable examples 3+2

3. Answer any one question: 1 x 10=10
- a. Classify myxomycota. Schematically represent the life-cycle of *Albugo* sp. What is aethalium? 4+5+1
 - b. What is quarantine? What are the control measures of vein clearing? Write the symptoms of angular leaf spot disease of cotton. What are the different biological control of plant diseases? 1+2+3+4