

**M.Sc. 1st Semester Examination, 2019**

**BOTANY**

PAPER – BOT-103

*Full Marks : 40*

*Time : 2 hours*

*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*

**Write the answers to Questions of each Units in separate books wherever necessary**

UNIT – I

( *Mycology* )

[ Marks : 20 ]

1. Answer any *two* from the following : 2 × 2

(a) What is holocarpic fungi ? Give example.

(b) What are sterigmata and hilum ?

(c) Give two special characters of choanozoa.

(d) What is clamp connection ?

2. Write notes on any *two* from the following : 4 × 2

(a) Unique features of fungi.

(b) Mechanism of ascospore discharge.

(c) Homothallism and heterothallism.

(d) Mating in Zygomycota.

3. Answer any *one* from the following : 8 × 1

(a) Characterise the phyla Neocallimastigomycota and glomeromycota with examples.

(b) Briefly describe mating system in Basidiomycota.

## UNIT – II

( *Plant Pathology* )

[ Marks : 20 ]

4. Answer any *two* from the following : 2 × 2
- (a) Describe the formation of disjuncter in *Sclerotinia*.
  - (b) What type of weather favours liberation of dry spores ?
  - (c) What do you mean by 'sign' and 'symptom' ?
  - (d) Define host and parasite.
5. Write notes on any *two* : 4 × 2
- (a) Spore liberation by impaction.
  - (b) Teleutospore and uredospore
  - (c) Role of environment in disease development
  - (d) Liberation of spores by hygroscopic movements.
6. Answer any *one* from the following : 8 × 1
- (a) What do you know about diagnosis of diseases by modern methods ?

(b) Briefly describe methods of liberation and dispersal of slime spores.

