

**2018**

**M.Sc. 1st Seme. Examination**

**BOTANY**

**PAPER—BOT-103**

*Full Marks : 40*

*Time : 2 Hours*

*The figures in the right-hand margin indicate full marks.*

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

*Illustrate the answers wherever necessary.*

**Unit-I**

*Mycology*

[ Marks : 20 ]

1. Answer any *two* questions : 2×2

(a) Name two fungal sources of riboflowin.

*(Turn Over)*

- (b) What are hydrogenosomes ? Where are they found ?
- (c) What are the functions of funicular cord and hapteron in *Cyathus* ?
- (d) What is Buller drop mechanism of basidiospore dispersal ?

2. Write notes on any two : 2×4

- (a) Role of fungi in agriculture and forestry.
- (b) Chytridiomycota.
- (c) Griseofulvin.
- (d) Discharge mechanism of Ascomycota from perithecium.

3. Answer any one question : 1×8

- (a) State the different steps of microbiological production of ethonol.
- (b) Characterise the Phyla Ascomycota and Basidiomycota with examples.

**Unit-II***Plant Pathology*

[ Marks : 20 ]

4. Answer any *two* questions : 2×2

- (a) What is DIPA ? In which year was it enacted ?
- (b) What is mist pickup ? Give example.
- (c) Define seed inspection and certification.
- (d) What is inoculum and inoculum potential ?

5. Write notes on any *two* : 2×4

- (a) Polycyclic and monocyclic disease.
- (b) Crown gall diseases.
- (c) Indirect penetration through natural openings.
- (d) Growth inhibiting substances.

6. Answer any *one* question :

1×8

(a) Elaborate the role of PR proteins in SAR.

(b) Write the symptoms and control measures of wilt of pigeon pea and anthracnose of jute.