# 2022

# 1st Semester Examination

# BOTANY

## Paper : BOT 103

Full Marks : 40 Time : Two Hours

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

## BOT 103.1 (Mycology)

1. Answer any ***two*** of the following : 2×2=4

   (i) What are holocarpic fungi? Give an example.

   (ii) Write two salient features of Phylum Chytridiomycota.

   (iii) Define sterigmata and hilum.

   (iv) What is Buller drop mechanism of basidiospore dispersal?

2. Write short notes on any ***two*** of the following : 4×2=8

   (i) Modifications of fungal hyphae ;

   (ii) Heterotrophic mode of nutrition by absorption ;

   (iii) Role of fungi in ecology ;

   (iv) Unique features of fungi.

P.T.O.

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

(i) Mention the salient features of Phyla Ascomycota and Basidiomycota. Cite examples to each. 4+4

(ii) Draw and describe the discharge mechanism of *Sphaerobolus stellatus.* 4+4

## BOT 103.2 (Plant Pathology)

4. Answer any ***two*** of the following : 2×2=4

(i) What is inoculum potential?

(ii) Differentiate between teleutospore and uredospore.

(iii) Define sign and symptom.

(iv) What is mist pick-up? Give an example.

5. Write short notes on any ***two*** of the following : 4×2=8

(i) Concept of disease triangle;

(ii) Spore libration by impaction;

(iii) Discharge mechanism of ascospores from perithecium ;

(iv) Liberation of spores by hygroscopic movements.

6. Answer any ***one*** of the following : 8×1=8

(i) What are the contributions of Doi and Ricketts in the history of plant pathology? 4+4

(ii) Discuss in detail the liberation of slime spores. 8