

**M.Sc. 1st Semester Examination, 2015**

**BOTANY**

**PAPER —BOT - 103(Unit - I & II)**

*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*

**Use separate answers script for each Unit**

**UNIT—I**

*( Mycology )*

1. Answer any *four* questions from the following :  
1 × 4  
(a) Name any two places where fungal spores are formed.

( Turn Over )

( 2 )

- (b) Name any two types of anastomosis observed in fungi.
- (c) Name the source and use of riboflavin.
- (d) What is heterothallism ?
- (e) What is turkey X disease ?
- (f) Who is the father of modern lichenology ?
2. Answer any *two* questions from the following : 4 × 2
- (a) Production of citric acid.
- (b) Types of aflatoxins.
- (c) Heterotrophic absorption.
3. Comment on the modifications of hyphae.  
Describe the role of fungi in ecology. 4 + 4

*Or*

Discuss phyla Acrasiomycota and Dictyosteliomycota with examples. 3 + 3 + 2

( 3 )

UNIT-II

( *Plant Pathology* )

4. Answer any *four* questions from the following :  
1 × 4
- (a) In which country were the plant quarantine laws first enacted ?
  - (b) What is functional resistance ?
  - (c) What is the causal organism of blast of rice ?
  - (d) Name a company which specializes in automated analysis of fatty acids.
  - (e) What is hypertrophy ?
  - (f) What is BTH ?
5. Answer any *two* questions from the following :  
4 × 2
- (a) Disease pyramid.
  - (b) Role of biotechnology in diagnosis of plant diseases.
  - (c) Describe any two methods of eradication of plant diseases.

( 4 )

6. Describe crown gall diseases.

8

*Or*

Discuss polycyclic and monocyclic diseases  
with examples.

3 + 3 + 2

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