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:
   \[1 \times 4\]
   (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: \[4 \times 2\]
(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. \[3 + 3 + 2\]
UNIT—II

(Plant Pathology)

4. Answer any four questions from the following:

(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:

(a) Disease pyramid.

(b) Role of biotechnology in diagnosis of plant diseases.

(c) Describe any two methods of eradication of plant diseases.
6. Describe crown gall diseases.

Or

Discuss polycyclic and monocyclic diseases with examples.