



**II Semester B.Sc. Examination, May 2017
(CBCS) (2014 – 15 & Onwards) (Fresh + Repeaters)**

BOTANY – II

**Diversity of Non-Vascular Plant (Part – II)
Mycology, Plant Pathology, Bryophytes and Plant Anatomy**



Time : 3 Hours

Max. Marks : 70

Instructions : 1) Answer *all* questions.
2) Draw diagrams *wherever* necessary.

PART – A

A. Explain/Define **any ten** of the following in **two** or **three** sentences : **(10×2=20)**

- 1) Name any four types of Asexual spores in fungi.
- 2) What is monokaryotic mycelium ? Give example.
- 3) What are Carpogonia ? Give example.
- 4) Write any two symptoms and causal organism of coffee rust.
- 5) Differentiate between chlorotic and necrotic lesions.
- 6) Write any two control measures of Red rot of sugarcane.
- 7) Differentiate between rhizoids and scales of Marchantia.
- 8) What are pseudoelaters ? Mention their function.
- 9) List any two important characters of Bryophytes.
- 10) Write any two differences between Tracheids and Trachea.
- 11) Mention any two functions of collenchyma.
- 12) What are Tyloses ?



PART – B

B. Write critical notes on **any four** of the following :

(4×5=20)

- 13) Uredospore stage of puccinia.
- 14) Mycorrhiza.
- 15) L.S. of Gemma Cup.
- 16) T.S. of Anthoceros thallus.
- 17) Types of sclereids.
- 18) Secretory tissues.

PART – C

C. Give a comprehensive account of **any three** of the following :

(3×10=30)

- 19) Economic importance of fungi in the field of medicine and agriculture.
 - 20) Explain the symptoms, causal organism and control measures of Blast disease of Rice.
 - 21) Explain :
 - a) *Bacillus thuringiensis* as Biopesticide
 - b) Grain smut of Sorghum
 - 22) With the help of a neat labelled diagram, explain the L.S. of sporophyte of *Marchantia*.
 - 23) With the help of a neat labelled diagram, explain anomalous secondary growth in *Dracaena* stem.
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