

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 ?

P.T.O.



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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