



II Semester B.Sc. Examination, May 2016  
(CBCS) (2014-15 and Onwards) (Fresh + Repeaters)  
**BOTANY – II**

**Diversity of Nonvascular Plants (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.

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

- 1) Classify fungi based on their nutrition.
- 2) Mention any two industrial uses of fungi.
- 3) What are Crustose Lichens ? Give an example.
- 4) Differentiate the symptoms of Rust and Smut.
- 5) Name the pathogen of koleroga, mention any two symptoms of the disease.
- 6) Mention any two plant diseases controlled by Trichoderma.
- 7) Draw a neat labelled diagram of Marchantia Thallus.
- 8) Mention any two vegetative reproduction in Bryophytes.
- 9) What are Elaters ? Mention the function.
- 10) Mention any two functions of Parenchyma.
- 11) Name the elements of food conducting tissue.
- 12) Differentiate between Spring and Autumn wood.

B. Write critical notes on **any four (4)** of the following :

**(4×5=20)**

- 13) Fruiting bodies of Ascomycetes.
- 14) Mycorrhiza.



15) *Bacillus thurengiensis* as Biopesticide.

16) Structure of *Funaria* Gametophyte.

17) Sclerenchyma.

18) Stelar secondary growth in Dicot stem.

C. Give a comprehensive account of **any three (3)** of the following : **(3×10=30)**

19) Importance of Fungi in Industries and Medicine.

20) Coffee rust.

21) Sporogonium of *Marchantia*.

22) Vascular Tissues.

23) Anomalous Secondary Growth in *Boerhaavia* stem.

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