



SE – 178

II Semester B.Sc. Degree Examination, September 2020
(CBCS) (2014-15 and Onwards) (Fresh + Repeaters)

BOTANY – II

Diversity of Non-Vascular 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.

PART – A

- I. Explain/Define **any ten** of the following in **two** or **three** sentences **each** : (10×2=20)
- 1) Mention any four general characters of fungi.
 - 2) What is Mycorrhiza ? Mention the types.
 - 3) Name the pathogen and any two symptoms of Red rot of sugarcane.
 - 4) Mention any four uses of lichens.
 - 5) What is coenocytic mycelium ?
 - 6) Mention the causal organism and control measures of grain smut of sorghum.
 - 7) What are tyloses ?
 - 8) Mention the elements of phloem.
 - 9) What is protonema ?
 - 10) Mention any four general characters of bryophytes.
 - 11) Differentiate between elaters and pseudoelaters.
 - 12) Define meristematic tissue. Classify meristems based on position.

PART – B

- II. Write critical notes on **any four** of the following : (4×5=20)
- 13) Asexual reproduction in Albugo.
 - 14) Cercospora.

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- 15) Mention the causal organism, symptoms and control measures of coffee rust.
- 16) Gemma cup.
- 17) Glandular tissues.
- 18) Sclerenchyma.

PART – C

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

- 19) Life cycle of puccinia on barberry.
 - 20) Economic importance of fungi in medicine and agriculture.
 - 21) Male and female flower of moss.
 - 22) *Bacillus thuringiensis* and trichoderma as biopesticide.
 - 23) Anomalous secondary growth in dracaena stem.
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