

II Semester B.Sc. Examination, May/June 2018 (CBCS) (2014-15 and 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) What is Coenocytic mycelium?
- 2) What are annual rings?
- 3) What is systemic infection? Give an example.
- 4) List the differences between dorsal and ventral surface of Marchantia thallus.
- 5) What is meristematic tissue?
- 6) Mention the pathogen and any two symptoms of blast disease of rice.
- 7) Differentiate the apothecium of lichens from peziza.
- 8) Mention the components of xylem.
- 9) Name the sex organs in bryophytes.
- 10) Differentiate between collenchyma and sclerenchyma.
- 11) Name the causal organism and its reproductive structure of Red rot of sugarcane.
- 12) What is protonema?

PART - B

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

 $(4 \times 5 = 20)$

- 13) T. S. of Marchantia thallus.
- 14) Laticiferous secretory tissue.
- 15) Grain smut of sorghum.



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- 16) Asexual reproduction in cercospora.
- 17) Parenchyma.
- 18) Alternation of generation in bryophytes.

PART - C

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

 $(3 \times 10 = 30)$

- 19) Give a detailed account of:
 - a) Koleroga
 - b) Neem as a biopesticide.
- 20) Secondary growth is dicot stem.
- 21) Explain the life cycle of Puccinia on Barberry.
- 22) Describe the structure of Funaria Sporophyte.
- 23) General characters of fungi.