

Q.P. Code - 22233

Second Semester B.Sc. Degree Examination, September 2020

(Non-CBCS - Semester Scheme)

Botany

**Paper II - MYCOLOGY, LICHENS, MYCORRHIZA, PLANT
PATHOLOGY, BRYOPHYTES AND PLANT ANATOMY**

Time : 3 Hours]

[Max. Marks : 60

Instructions to Candidates :

- 1) *Answer all Parts.*
- 2) *Draw diagrams wherever necessary.*
- 3) *Answer should be written in English.*

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PART - A

I. Answer any **SIX** of the following : **(6 × 2 = 12)**

1. Expand VAM. Mention its significance.
2. Mention any four methods of Asexual Reproduction in Fungi.
3. What are Lichens? Name any two lichens.
4. What is Mycorrhiza? Mention its types.
5. Name the causal organism and any two symptoms of coffee rust.
6. Differentiate between Exarch and Endarch Xylem.
7. What are Rhizoids? Mention their function.
8. Define Meristem. Classify meristem based on position.

PART - B

II. Describe any **SIX** of the following : **(6 × 4 = 24)**

9. V.S. of Peziza Apothecium
10. Puccinia uredial stage
11. Kole roga of Arecanut

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12. T.S. of Anthoceros thallus
13. Internal structure of Lichen thallus
14. External morphology of marchantia gametophyte
15. Parenchyma
16. Histogen theory

PART – C

III. Answer any **THREE** of the following : (3 × 8 = 24)

17. With a neat labelled diagram describe the L.S. of mature sporophyte of Anthoceros.
18. What is anomalous secondary growth? Explain it with reference to Dracaena stem.
19. Describe life cycle of puccinia on Barberry plant.
20. Explain the Economic importance of Fungi.
21. Write a note on :
 - (a) Red rot of sugarcane
 - (b) Annual Rings