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B.Sc./1st Sem (H)/BOTA/22(CBCS)

2022

1st Semester Examination

**BOTANY (Honours)**

Paper : GE 1-T

[Biodiversity (Microbes, Algae,  
Fungi and Archegoniate)]

[CBCS]

Full Marks : 40

Time : Two Hours

*The figures in the margin indicate full marks.  
Candidates are required to give their answers  
in their own words as far as practicable.*

A. Answer any **five** from the following questions :  $2 \times 5 = 10$

1. What is bacterial growth curve?
2. Compare between homospores and heterospores.
3. Name two edible fungi.
4. Write note on coralloid root.
5. Define palmella stage with example.
6. Name two diseases caused by Prions.
7. What is mycorrhiza?
8. Give the fern characters of *Cycas*.

P.T.O.

B. Answer any **four** from the following questions :  $5 \times 4 = 20$

9. Classify lichens with examples. 5

10. Draw and label the anatomy of the leaflet of *Pinus*. 5

11. Discuss different types of sexual reproductions found in *Chlamydomonas*. 5

12. Discuss the features of the strobilus of *Selaginella*. 5

13. Draw the structure of TMV and label it. 5

14. Write notes on (any **two**) :  $2\frac{1}{2} \times 2 = 5$

(i) Capsule of *Funaria*.

(ii) Characters of *Archaeobacteria*.

(iii) Fruit body of *Agaricus*.

C. Answer any **one** from the following questions :

$10 \times 1 = 10$

15. Discuss the economic importance of Gymnosperms and Bacteria. 5+5

16. Classify algae according to Lee (only groups with features). 10