

**20P128**

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Name: .....

Reg. No.....

**FIRST SEMESTER M.Sc. DEGREE EXAMINATION, NOVEMBER 2020**

(CBCSS-PG)

(Regular/Supplementary/Improvement)

**CC19P BOT1 C01 – PHYCOLOGY, BRYOLOGY, PTERIDOLOGY AND GYMNOSPERMS**

(Botany)

(2019 Admission onwards)

Time: Three Hours

Maximum: 30 Weightage

I. Answer any *four* questions. Each question carries 2 weightage.

1. Describe the Pigmentation in major classes of Algae.
2. Enumerate the Ecological importance of Bryophytes.
3. Compare Apospory and Apogamy in Pteridophytes.
4. Explain the reproduction of Ginkgoales.
5. Distinguish between Haplontic and Diplontic life cycles in algae.
6. Explain the Heterospory and Seed habit with example.
7. Enumerate the Economic importance of Gymnosperms.

**(4 x 2 = 8 Weightage)**

II. Answer any *four* questions. Each question carries 3 weightage.

8. Explain the Reproduction and Life cycles of Phaeophyta.
9. Explain the characters of fossil Bryophytes and their affinities.
10. Describe the Reproduction and life history of Jungermanniales.
11. Enumerate the contributions of Indian Pteridologists.
12. Compare and contrast Rhyniales and Psilophytales.
13. Explain peculiarities of welwitschiales.
14. Explain the characters of Glossopteridales and evolutionary significance.

**(4 x 3 = 12 Weightage)**

III. Answer any *two* questions. Each question carries 5 weightage.

15. Explain the thallus organization and evolutionary trends in Chlorophyta with suitable diagrams.
16. Elaborate the Sporophytic Origin and Evolution of Bryophytes.
17. Explain the Structure and evolution of stele in Pteridophytes with suitable illustrations.
18. Write an essay on the Geological history, Origin and Evolution of Gymnosperms.

**(2 x 5 =10 Weightage)**

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