

**19P128**

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Name: .....

Reg. No.....

**FIRST SEMESTER M.Sc. DEGREE EXAMINATION, NOVEMBER 2019**

(CUCSS PG)

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

(Botany)

(2019 Admission Regular)

Time: Three Hours

Maximum: 30 Weightage

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

1. Distinguish between Isogamy and Oogamy.
2. What is the function of pseudoelator?
3. Write a note on pigments in algae.
4. Describe the evolutionary significance of Isoetes.
5. Explain the female fructification of Lyginopteris.
6. Differentiate between Apogamy and Apospory in pteridophytes.
7. What is the role of diatoms in Nanotechnology?

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

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

8. Give an account of the contribution of Indian pteridologists.
9. Describe the vegetative reproduction in Marchantiales.
10. Explain biological importance of phytoplanktons.
11. Discuss briefly the toxic algal forms and their effects.
12. Write a note on fossil bryophytes.
13. Describe heterospory in pteridophytes.
14. Explain reproduction in Caytoniales.

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

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

15. Write an essay on stelar evolution in pteridophytes.
16. Gymnosperms are connecting link between angiosperms and pteridophytes. Explain.
17. Compare the megasporangium of Cycas, Pinus and Gnetum.
18. Explain the thallus organization, reproduction and economic importance of Chlorophyta.

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

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