

**18P128**

(Pages: 2)

Name: .....

Reg. No.....

**FIRST SEMESTER M.Sc. DEGREE EXAMINATION, NOVEMBER 2018**

(CUCSS-PG)

**CC18P BO1 C01 – PHYCOLOGY, BRYOLOGY, PTERIDOLOGY AND**

**GYMNOSPERMS**

(Botany)

(2018 Admission Regular)

Time: Three Hours

Maximum: 36 Weightage

**PART A**

Answer *all* questions. Each question carries 1 weightage.

1. Write a note on columella.
2. Explain Bars of Sanio.
3. Enumerate the primitive features of Rhynia.
4. Compare elaters and pseudoelaters.
5. Give an account of diatomaceous earth.
6. Write a note on features of cycadoidales.
7. Distinguish between isogamy and oogamy.
8. Write a note on palmella stage.
9. Maiden hair tree.
10. Write a note on unilocular and pleurilocular sporangia.
11. Amphiphloic xylem
12. Mention the vegetative features of anthocerotales.
13. Comment on girdle leaf trace.
14. Write a note on the importance of Rhodophyceae.

**(14 x 1 = 14 Weightage)**

**PART B**

Answer any *seven* questions. Each question carries 2 weightage.

15. Explain the asexual reproduction in Chlorophyceae.
16. Describe features of Xanthophyceae.
17. Briefly describe the gametophyte development in a homosporous fern.
18. Enumerate the contribution of Indian pteridologists.
19. Discuss the evolutionary significance of Caytonia.
20. Explain the characters of lepidodendrales.
21. Importance of bryophytes in monitoring air pollution.

22. Note on phylogenetic peculiarities of Isoetales .
23. Describe the seed habit in Selaginella.
24. Differentiate between meiotic apogamy and mitotic apogamy.

**(7 x 2 = 14 Weightage)**

**PART C**

Answer any *two* questions. Each question carries 4 weightage.

25. Briefly explain triphasic haplobiontic life cycle.
26. Give an account of the thallus organization of bryophytes in an evolutionary perspective.
27. Describe the stellar evolution in pteridophytes.
28. Explain the statement “gymnosperms are a connecting link between angiosperms and pteridophytes”.

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

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