

Name:.....

Reg. No.....

FIRST SEMESTER M.Sc. DEGREE EXTERNAL EXAMINATION FEBRUARY 2016

(2015 Admission)

CC15P BO1 C01 – Phycology, Bryology, Pteridology & Gymnosperms

(Botany)

Time 3 Hours

Max. Weightage: 36

I. Answer all questions briefly:

1. What is water bloom?
2. What are toxic Algae?
3. Fucosan vesicles.
4. What are cryptoblasts?
5. Write short note on lunate gemma cups
6. What is protonema?
7. Write a note on Peat Moss.
8. What is synangium?
9. Write a note on the medicinal properties of Pteridophytes.
10. Write a note on strobilus of Lycopodiales.
11. Write a note on Royal Fern.
12. Differentiate between manoxylic and picnoxylic wood.
13. Comment on Ephedrin.
14. Importance of Pentoxylales.

(14 x 1 = 14 weightage)

II. Answer any 7 questions each in not more than 100 words:

15. What are the characteristics for algal classification?
16. Write a note on apogamy and its causes in Pteridophytes.
17. Write a note on algae as biofuel.
18. Briefly describe the different types of vegetative reproduction in Bryophytes.
19. Briefly describe the reproduction in Rhodophyceae.
20. Discuss the affinities of Pteridospermales.

21. Discuss the affinities of *Sphagnum*.
22. Write a note on heterospory and seed habit in Pteridophytes.
23. Write short note on the angiosperm features of *Gnetum*.
24. Describe the sporangial development in Pteridophytes.

(7 x 2 = 14 weightage)

III. Answer any 2 questions in 300 words:

25. Describe the various life cycle patterns in Algae.
26. Write an essay on fossil Bryophytes.
27. Discuss the structure and evolution of stele in Pteridophytes.
28. Discuss the phylogeny and inter-relationships of Gnetales.

(2 x 4 = 8 weightage)
