

MSc DEGREE END SEMESTER EXAMINATIONS – NOVEMBER 2015

SEMESTER- 1, SUBJECT : BOTANY

COURSE: P1BOTT03, BRYOLOGY, PTERIDOLOGY & PALEOBOTANY

Time: Three Hours

Max. Marks: 75

I. Answer **any eight** questions. Each question carries **2** marks.

1. What is a protocorm?
2. What is indusium?
3. What is the common name of *Equisetum* .Why it is named so?
4. Write about morphological nature of spore producing organs of *Psilotum*.
5. What is the genus name of 'Quillwort'. Why it is named so?
6. Write a note on gametophytes of Pteropsida.
7. Write any three important differences between Bryophytes and Pteridophytes
8. Write a note on rhizoids of Bryophytes.
9. Write a note on gemmae of Bryophytes.
10. What are elaters?
11. Briefly explain structure of typical antheridium in Bryophytes.
12. Write a note on peristome. (2 × 8 = 16)

II. Answer **any seven** questions. Each question carries **5** marks.

13. Briefly explain economic importance of Pteridophytes.
14. Explain apospory and apogamy in Pteridophytes?
15. Write an account on heterospory in Pteridophytes
16. Write an account of asexual methods of reproduction in Bryophytes.
17. Give a detailed account on any one important classification of Pteridophytes.
18. Write an account on general characters of Hepaticopsida
19. Give a comparative account of sporophytes in Sphagnales, Polytrichales and Bryales.
20. Describe the external morphology of *Salvinia* and add note on its economic importance.
21. Give the structure of sporangium in *Ophioglossum*.
22. Give an account of algal and Pteridophytic origin of Bryophytes. (5 × 7 = 35)

III. Answer **any two** questions .Each question carries **12** marks.

23. Write an account of evolutionary trends of gametophytes of Pteridophytes.

OR

24. Write an essay on appendages in Bryophytes.
25. Write an essay on stelar evolution in Pteridophytes.

OR

26. Discuss gametophytic variation in Bryophytes. (12 × 2 = 24)
