

15012(OR)

M.Sc., DEGREE EXAMINATION, OCTOBER/NOVEMBER 2015  
FIRST SEMESTER

Botany

Paper II – Biology and Diversity of Algae, Bryophytes, Pteridophytes and Gymnosperms  
Time: Three hours

Max. Marks: 75

(No additional sheet will be supplied)

PART A- (5 x 3 = 15 marks)  
Answer any FIVE questions.  
Each question carries 3 marks.  
Each answer should not exceed 1 page

1. Algal blooms
2. Cyanobacteria
3. *Porella*
4. Gemma cups
5. *Psilotum*
6. Telome theory
7. Geological- time scale
8. Pentoxylales

PART B - (4 x 15 = 60 marks)  
Answer ALL questions.  
Each question carries 15 marks.  
Each answer should not exceed 6 pages

9. Mention the reproduction in Algae  
(or)
10. What is the significance of pigments in classification of Algae
11. Write an essay on ecological significance of Bryophytes  
(or)
12. Discuss the evolution of sporophyte in Bryophytes
13. Describe the heterospory and seed habit of Pteridophytes  
(or)
14. Give an account on classification and general characteristics of Pteridophytes
15. Explain the economic importance of Gymnosperms  
(or)
16. Bring out the salient features on determination of age of plant fossils.