2023

M.Sc.

First Semester

CORE - 02

BOTANY

Course Code: MBOC 1.21 (Bryophytes & Pteridophytes)

Total Mark: 70 Pass Mark: 28 Time: 3 hours

Answer five questions, taking one from each unit.

	UNIT-I	
1.	Give a comparative account of the gametophytes of <i>Anthoceros Funaria</i> .	s and 14
2.	(a) Describe the development of antheridium in <i>Pellia</i>.(b) Write a note on the classification of bryophytes.	7 7
	UNIT-II	
3.	Write a note on colonization, succession and role of bryophytes ecosystem.	in 14
4.	Write notes on the following: (a) Economic importance of bryophytes(b) Bryophytes as site specific bio-indicator	7×2=14
	UNIT-III	
5.	Write an account on the theories of the origin of pteridophytes.	14
6.	Write notes on the following: (a) Heterospory and seed habit in <i>Selaginella</i>(b) Stelar evolution in pteridophytes	7×2=14

UNIT-IV

7.	7. Describe the morphological and reproductive structures in <i>Lycop</i>	
	give appropriate diagrams.	14

8. Write notes on the following:

 $7 \times 2 = 14$

- (a) Reproductive structure in Rhynia
- (b) Morphology and anatomy of Azolla leaf

UNIT-V

- 9. Write a note on the insect-microorganism-pteridophyte interaction. 14
- 10. Write a note on the following:

 $7 \times 2 = 14$

- (a) Economic importance of pteridophytes
- (b) Affinities of pteridophytes with gymnosperms

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