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B.A./B.Sc (General) 2nd Semester 1048 BOTANY Paper: A Plant Diversity-II

Time: 3 Hours] [Max. Marks: 36

Note:- (1) Attempt five questionsinall.

- (2) Question No. 1 is compulsory.
- (3) Attempt four more questions, selecting one from each unit.
- (4) Draw well labelled diagrams wherever necessary.
- 1. (A) Multiple choice questions:
 - (i) Prominent vallecular canals are characteristic feature of which part of Equisetum aerial stem?
 - (a) Pith

(b) Cortex

- (c) Endodermis
- (d) Pericycle
- (ii) Heterosporous condition is seen in:
 - (a) Rhynia

(b) Equisetum

(c) Selaginella

(d) Pteris

		(iii)	Branched, multicellular and obliquely septate rhizoids occur in :					
			(a)	Funaria	(b)	Anthoceros		
			(c)	Riccia	(d)	Marchantia		
		(iv)	In Selaginella stem trabeculae represents modified :					
			(a)	Epidermal cells	(b)	Cortical cells		
			(c)	Endodermal cells	(d)	Vascular tissue		
		(v)	In Funaria the number of peristome teeth in two row are :					
			(a)	16 + 16	(b)	08 + 08		
			(c)	16 + 08	(d)	absent		
		(vi)	In N	/larchantia sporogon	ium	, elaters help in :		
			(a)	Sporedispersal	(b)	Nourishment		
			(c)	Conduction	(d)	Mechanical support 6x1=6		
(B)	Fill	in th	e bl	anks:				
· •	(i)	In Pteris the fertile leaf bearing sporangia is called						
	(ii)	Small tongue - shaped outgrowth present at the base on the adaxial side of young leaf of Selaginella is known as						
	(iii)) Capsule in Anthoceros grows constantly due to the presence of meristem.						
	(i. /\	-						
	(17)	is commonly called Cord Moss.						

	(v)	Riccia thallus intemally shows differentiation into storage and zones.	
	(vi)	The sporogonium of Funaria is differentiated into and capsule.	foot, 6x1=6
2.	(a)	UNIT-I Give graphic representation of life cycle in Riccia.	
	(b)	Write briefly about rhizoids in Riccia.	4,2
3.		e an illustrated account of mature sporogonium of rchantia.	6
		UNIT-II	
4.	Dra	w L.S. of mature sporogonium of Anthoceros.	6
5.		ite brief notes on: Protonema in Funaria	
	(b)	Peristome teeth in Funaria.	3,3
6.		UNIT-III ite short notes on any two of the following: Rhizophores of Selaginella	
	(b)	Heterospory and its importance	
	(c)	Sporangiferous spike of Selaginella.	3,3

7.	Describe the structure of sporophyte of Rhynia.	6
7.	Describe the structure of sporophyte of Rhynia.	

UNIT-IV

- 8. (a) Describe the structure of elaters and their functions in Equisetum.
 - (b) Give a brief account of Equisetum strobilus. 3,3
- 9. (a) Draw T.S. Petiole of Pteris.
 - (b) Write a brief note on Pteris prothallus. 3,3