(i)	Printed Pag	ges: 4	Roll No.				
(ii)	Questions	:9	Sub. Code:	0	1	5	4
, ,			Exam Code:	0	0	0	2

B.A./B.Sc. (General) 2nd Semester 1059

BOTANY

Paper-A: Plant Diversity-II

Time Allowed: 3 Hours]

[Maximum Marks: 36

- Note: (1) Attempt five questions in all.
 - (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) In Riccia the sporophyte is represented by :
 - (a) Foot and seta
- (b) Capsule
- (c) Foot and capsule (d) Foot, seta and capsule

(ii)	W	hich of the follo	wing is	s true about elaters o		
	Eq	uisetum?		ii) Questions :9		
0	(a)	Spindle shaped				
	(b)	Possess spiral th	ickenin	g bands		
	(c)	Formed from ep	oispore l	layer of haploid spore		
	(d)	All of these				
(iii)	Mucilage cavities inhabited by blue green alga are seen					
	in thallus of:					
	(a)	Anthoceros		lime Allowed: 3 Hour		
	(b)	Riccia				
	(c)	Marchantia		Vote :- (1) Attemp		
	(d)	Riccia and Marc	chantia			
(iv)	Antherozoids of Pteris are spirally coiled and:					
	(a)	Multiflagellate	(b)	Biflagellate		
	(c)	Uniflagellate	(d)	Aflagellate		
(v)	Anthoceros thallus shows:					
	(a)	(a) Smooth walled rhizoids				
	(b)	Tuberculate rhizo	ids			
	(c)	Smooth walled rl	hizoids	and scales		

Tuberculate rhizoids and scales.

	(vi)	Intercalary merister	m is seen	in stem of:	
e allu		(a) Selaginella	(b)	Pteris	Dona I
		(c) Funaria	(d)	Equisetum.	6×1=6
(B)	Fill	in the blanks:			
	(i)	In <i>Pteris</i> , the cordat also known as			etophyte is
	(ii)	Resurrection plants	belong to	L ZT word	genus.
	(iii)	In Marchantia the called			hegonia is
	(iv)		moveme	nt of elaters he	elp in spore
	(v)	The lysigenous cavit are called	ies in the a	als.	
	(vi)	In Funaria	h	elp in the di	spersal of
		spores.	i a con into		6×1=6
		UNIT	-I		
Wri	te sho	rt notes on the follow	ing:		
(a)	Gen	nma cup in Marchant	ia.		
(b)	Rhizoids and scales of Marchantia. 3,3				3,3
Give	an ill	ustrated account of in	ternal str	acture of Ricc	ia thallus.
					6

2.

3.

UNIT-II

		CIVII—II	-		
4.	Des	scribe briefly the structure of mature sporogonium of Anthon	oceros.		
		. (c) Favoria (d) Equipment	6		
5.	(a)	Draw T.S. of Funaria stem.			
	(b)	Write short note on rhizoids in Funaria.	4,2		
		UNIT-III			
6.	(a)	Draw T.S. of Rhynia stem.			
	(b)	Write a brief note on sporangium of Rhynia.	4,2		
7.	(a)	What is heterospory? Discuss its significance with ref	erence		
		to selaginella.			
	(b)	Write briefly about Trabeculae.	4,2		
		UNIT-IV			
8.	Give a detailed account of the structure of Equisetum cone. 6				
9.	Give an illustrated account of the structure of sporangium of Pteris.				
	Desc	cribe the mechanism of its dehiscence and dispersal of s	pores.		
		I-TIMU	6		