SUBJECT CODE NO:- B-2159 FACULTY OF SCIENCE AND TECHNOLOGY B.Sc. F.Y (Sem.-II) Examination OCT/NOV 2019 Botany Paper- IV Diversity of Cryptogams-II

[Time:	1:30 Hours] [Max. M	arks:5(
N.B	Please check whether you have got the right question paper. i) Attempt all questions. ii) Draw neat and well – labeled diagram wherever necessary.	
Q.1	Describe the external structure of Marchantia thallus and add a note on T. S of thallus.	20
	OR	
	Explain in detail life cycle of funaria	
Q.2	Give an account of various types of gametophytes found in Lycopodium.	20
	OR	
	Explain in brief: (any four)	
	A. Gemma cup	
	B. Sent feactures of Bryophyta	
	C. synangium	
	D. Rhizophore	
	E. Sporocarp	
TO SOL	F. Strobilus of selaginella	
Q.3	Multiple choice questions.	10
	1. Bryophytes grow in habitats that are:	
	a) dry b) Moist c) salty d) Marshy	
	2. Bryophytes are	
	a) Aquatic b) Amphibians c) Terrestrial d) Aerial.	

1

B-2159 2019

3. In Bryophytes emb	ryonic developi	nent of zygote ta	kes place in.	
a) Antheridium	b) sporangiu	m c) cap	sule d) A	Archegonium.
4 plant is	called as cord n	noss.		
a) marchantia	b) funaria	c) Marsilea	d) psilott	im
5. Whisk fern is		201016		
a) psilotum b)	selaginella	c) Lycopodiu	m d) M	arsilea.
6) Class Eligulopsida	is of			
a) psilotum b) Lyo	copodium	c) selaginella	d) Ma	rsilea
7. Trabeculae in selag	inella are modi	fied:		
a) Endodermal cells	B Ship			
b) Pericycle cells.				
c) cortical cells				
d) Pericycle and end	odermal cells.			
8. Rhizophore is a			S S S S S S S S S S S S S S S S S S S	
a) Root b) ste	m c) sui-	generis d)	Rhizoids.	
9. Ridges and groove	s are present on	the stem of:		
a) psilotum b)	Marsilea	c) selaginella	d) Equiset	um.
10. Presence of air ca	vities in the ster	n of Equisetum i	ndicates the fea	ature of
a) Hydrophytes	b) Xerophytes	c) mesoph	ytes d) Ha	lophytes.

SUBJECT CODE NO:- B-2052 FACULTY OF SCIENCE AND TECHNOLOGY

B.Sc. F. Y. (Sem-II)

Examination November/December- 2022 Botany Paper- IV Diversity of Cryptogams-II

:30 Hours]	By Bay Co. By	[Max. Marks:50]
Please chec	k whether you have got the right question	paper.
		FORDS - PLANE FOR FORE
Give an account of vegetati	ve and sexual reproduction in funaria	20
		Sport of Sport
a) Describe external gamet		10
b) General characters of Br	yophytes.	10
Describe external and intern	nal structure of Equesitum sporophyte	20
	OR OR	
Write in brief (any four)	Col Sp. 30kg Fey,	20
1) Rhizophore		
2) Gemma cup		
3) Economic Importance	of Bryophytes	
4) Sporophyte of Selasine	lla S	
5) Sprocarp of marsilea		
6) Psilotum sporophyte		
9/21 6/1/		
ltiple Choice questions.	s, Ess, Es	10
1) Heterophytic alternation	of generation is commonly found in	
a) Bryophytes	b) preridophyte	
c) Gymnosperm	d) None of the above	
	Please check i) Attempt all Qui) Draw neat and Give an account of vegetati a) Describe external gamet b) General characters of Br Describe external and interr Write in brief (any four) 1) Rhizophore 2) Gemma cup 3) Economic Importance of 4) Sporophyte of Selasine 5) Sprocarp of marsilea 6) Psilotum sporophyte ltiple Choice questions. 1) Heterophytic alternation a) Bryophytes	Please check whether you have got the right question i) Attempt all Questions. ii) Draw neat and well-labeled diagram wherever necessary Give an account of vegetative and sexual reproduction in funaria OR a) Describe external gametophytic structure of marchantia b) General characters of Bryophytes. Describe external and internal structure of Equesitum sporophyte OR Write in brief (any four) 1) Rhizophore 2) Gemma cup 3) Economic Importance of Bryophytes 4) Sporophyte of Selasinella 5) Sprocarp of marsilea 6) Psilotum sporophyte Itiple Choice questions. 1) Heterophytic alternation of generation is commonly found in a) Bryophytes b) preridophyte

		B-2052
		The state of the s
2)	Last stage of gametophytic g	eneration is
	a) Spore mother cell	b) Spore
	c) gamets	d) zygote
3)	First land inhabitation plants	are of the second secon
	a) Pteridophytes	b) Bryophytes
	c) Gymnosperms	d) Angiosperms
4)	The term Bryophyta was give	en by
	a) Drawin	b) Aristotle
	c) Galen	d) Braun
5)	In Marchantia vegetative rep	roduction take place with the help of
	a) Gemma cup	b) Elastar
	c) Protonema	d) sporocarp
6)	Heterospory is the production	n of the second
	a) Dipliod and tetraploid spo	re to the total the total tota
	b) Sexual and Asexual spore	
	c) large and small spore	
	d) Hapliod and diploid spore	
7)	Pteridophytes also known as	
	a) Phenerogams	b) Spermatophyte
	c) Amphibian	d) Vascular cryptogams
8)	Fertile and sterile two types of	of branches occurs in these plant
	a) Marsilea	b) Cycopodiun
	c) Equisetum	d) Psilotum
9)	Each sorous in marsilea is co	vered by
	a) In dusium	b) Integuments
	c) elestar	d) capsule
10	In Selaginella trabeculae are	modification of
	a) Epidermal Cell	b) Cortical Cell
	c) Endodermal Cell	d) Peridermal Cell

SUBJECT CODE NO:- 2052 FACULTY OF SCIENCE AND TECHNOLOGY

B.Sc. F.Y (Sem. II)

Examination March/April-2022 (To Be Held In June/July-2022)

Botany Paper-IV

				versity of Ci	ryptogams – II	
[Time:	1.53 H	lours	5]			[Max. Marks:50
N.B			1. Atten	npt all quest	e got the right question paper. ions. swer with suitable labeled diagrams	
Q.1	Descri	be th	e general characters of B		nd give its economic importance.	20
	Descri	be ex	xternal & internal structu			20
Q.2	Descri	be o	ccurrence, external and ir		ture of sporophyte of selaginella. OR	20
	a)b)c)d)e)	Ger Het Veg Spo	notes on (any four) mma CUP erospory getative reproduction in Forangium of equisetum velopment of synangium ule	⁷ unaria		20
Q.3	Multip	ole ch	noice questions.			10
		a) c) Wh a) c) Pro	Prof. K.C. Merta Prof. S. R. Kashyap ich of the following know Club moss Bogg moss tonema is the stage in the	b) d) wn as true m b) d)	Reindeer moss Irish moss f	
		~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~	Funaria Riccia	· · · · · · · · · · · · · · · · · · ·	Marchanatia None of the above	
	4.	a)	rchantia plant shows CUI Ostiale Seta	b) (are on midrib of the branch called a Gemma CUP Receptacle	s

5. T	his pteridophytic plant common	ly known as 'horse tail'.
	a) Selagenella	b) Mausilea
(c) Equisetum	d) Lycopodium
6. S	trobilus of club mosses consist _	
;	a) Chlorophyll	b) Xanthophyll
(c) Sporophyll	d) None of the above
7. N	Megaspore shows small dark colo	oured papillae at its apex in the pteridophytic plant
_	a) Equisetum	b) Lycopodium
(c) Psilotum	d) Mausilea
8. Iı	n the psilotum plant state is	<u> </u>
	a) Protostele	b) Siphonostele
(c) Plectostele	d) Mixed stele
9. Iı	n between stem and leaf small m	embranous outgrowth is called ligule, it is present in
	a) Selaginella	b) Marsilea
(c) Lycopodium	d) Equisetum
10. P	leridophyte differ from Bryophy	tes in possessing
	a) Independent gametophyte	b) Developing wall
	c) Vascular system	d) Flagellate spermatozoids

SUBJECT CODE NO: - Y-2052 FACULTY OF SCIENCE AND TECHNOLOGY

B.Sc. F.Y (Sem-II)

Examination March / April - 2023

Botany Paper- IV Diversity of Cryptogams-II

[Tin		Max. Marks: 50]
N. B	Please check whether you have got the right question paper. 1) Attempt all questions.	Sy. A.
14. Б	2) Draw neat and well-labelled diagram Wherever necessary.	
	2) Draw men und yen meser unigrams v mese ve pecessary.	
Q1	Describe the structure of Marchantia gametophyte	20
-	OR	.99
	a) General Characters of Bryophytes	10
	b) structure of Funaria sporophyte	10
Q2	Give an account of external and Internal structure in Marsilea sporophyte	20
Q2	OR	20
	write in brief (any Four)	20
	1. Apophysis	20
	2. Types of steles in Lycopodium	
	3. Selaginella strobilus	
	4. Economic Importance of Bryophytes	
	5. Prothallus of Equisetum	
	6. Psilotum sporophyte	
	o. I shotum sporophyte	
02	Multiple obsiderations	10
Q3	Multiple choice questions	10
	1) Which of the Following is non vascular embryophyte?	
	a) Thallophyta b) Bryophyta c) pteridophyte d) All of the abo	ove
	2) Bryophytes are of	
	a) Great Economic valve	
	b) Non valve at all	
	c) Great ecological Importance	
	d) No aesthetic value	
	3) Elaters are present in sporangium of	
	a) Marchantia b) funnaria c) Selaginella d) Riccia	
	4) Gemmae are vegetative reproductive structure found in	
	a) Angiosperm b) Algae c) Bryophytes d) Pteridophytes	
	5) Function of elaters is	
	a) Absorption of food b) Conduction of sap	
	c) spore dispersal d) provide support	

6) Evolutionary Importance characters of Selaginella is b) Rhizophore a) Heterosporous nature c) strobil d) Ligule 7) Seed habit originated in b) Pteridophytes a) Bryophytes c) Fungi d) Gymnosperm 8) Commonly these pteridophyte plant called as 'ground pines' d) Selaginella a) Psilotum b) Marsilea c) Lycopodium 9) If Sori develops in a special nut Like structure, then it is called as sporocarp it occurs in a) Marsilea b) Lycopodium c) Psilotum d) Equisetum 10) Psilotum plant is b) Trisporous c) Tetrasporous d) Homosporous a) Disporous

SUBJECT CODE NO: - BB-2327 FACULTY OF SCIENCE AND TECHNOLOGY

B.Sc. (CBCGS) (Pattern 2022) F.Y (SEM-II)

Examination November / December- 2023 Botany Paper-IV

Diversity of Cryptogams-II

[Tim	ne: 1:30	Hours]		8	2,01210,01 01,	20			[Max. Mar	ks: 40]
		Pl	ease chec	k whe	ether you have a	got th	e right question	n pape	er.	
N. B					questions. ur answer with	suita	ble labelled dia	grams		E SE
Q1	Give a	n account	on male a	nd fe	male reproduct	o ive st	ructure of Fun	aria		3 10
Q1	GIVE a	ur decount	on male a	iid ic	OR	110 50	ractare or rain	arra.		y 10
	Descri	be in brief	1.8						5, 32,	Ž.
	a)	Female r	eproductiv	e org	gan of Marchan	tia				
	b)	L.S. of sp	orophyte	of A	nthoceros				687	
Q2	Descri	be prothal	lus of psil	otum	with well label	lled d	iagram.			10
199) <u>-</u>	8), , ,	339	OR					
	a)	Rhynia				3				
	(b)	Morphol	ogy of ma	rsilea				7		
Q3	Write	short note	s on (any t	two)						10
	a)	Gemma	cup	Y		T.	20	(3)		
	b)	T.S. of L	ycopodiui	n lea	f S					
	(C)	Sporophy	yte of sella	agine	lla					
					83 ^T					
Q4	Multip	ole choice	questions.			3				10
	(1)	The most	t advanced	l spoi	ophyte in bryoj	phyte				
		a) Mar	chantia	b)	Funaria	c)	Marsilea	d)	Lycopodium	
	0	(2)								
A.	2)		ts is comr					-		
), ,		a) Fun	aria	b)	Selaginella	c)	Marchantia	d)	Marsilea	
	2)	Club mo	ag ig tha ag	mm	n nama of					
	3)		6		on name of Psilotum	a)	Equisatum	4)	Lyaanadium	
		a) Sela	ginella	U)	1 SHOUHI	c)	Equisetum	u)	Lycopodium	
	4)	Liqulear	nd cone ar	e fou	nd in					
		0 0,	ginella		Lycopodium	c)	Psilodum	d)	Marsilea	
		u) Bold	Sillolla	0)	Lycopodium	υ)	1 SHOWIII	4)	1,14151104	

				Party Sales, Solit
				BB-2327
5)	Leaves of which plant a) Lycopodium	nt have ligule b) Selaginella c) Equisetum	d) Marsilea
6)	The root hairs arise i a) Equisetum	n pairs inb) Marsilea c	Dryopteris	d) Lycopodium
7)	Elaterd spores are pr a) Selaginella	esent in b) Equisetum c)) Rhynia	d) Marsilea
8)	a) Lycopsida	b) Pteropsida c) Psilopsida	d) Sphenopsida
9)	In Equisetum the ant a) Uniflagellate	cherozoids are b) Bi flagellate c)	Multiflagellate	d) Non flagellate
10	Horse tail belongs toa) Psilophytopsida		e) Sphenopsida	d) Pteropsida
C B A B A B A B A B A B A B A B A B A B	Substitution of the substi	EBEROY SEEDING	SUD SUBSECTION OF	Sp. Delay.
	OCIBIANT SPECIAL		EE STORY	
		Delegation of the state of the	, Tible Bee	
ESTEROTO SO	Jogg Deggy	Dele Delegan		
Be Beer		Desper Bolder	SC BANG	
	5 Significant Charles			
(B) B	British British	FER POLY		
De, Delega	Bright Bally	2		