SUBJECT CODE NO:- Y-2032 FACULTY OF SCIENCE

B.Sc. F.Y (Sem-II) Examination March/April 2017 Botany Paper-V / (VI 2009 Pattern) Histology Anatomy and Embryology

[Time: 1:30 Hours]	[Max.Marks:50]
Please check whether you have got the right question paper. N.B i) Attempt all questions. ii) Draw neat and well-labeled diagrams wherever necessary.	
Q.1 Describe in details the simple permanent tissues in plants.	20
Explain in details the primary structure of monocot root.	
Q.2 Explain the development of embryo in dicot plants.	20
Write short notes on: (any one)	
a) Xylem cells	
b) Tunica corpus theory of apical cellular organization.	
c) Structure of pteriderm	
d) Dorsiventral and isobilateral leaves.	
e) L.S. of anatropous ovule	
f) Structure of dicot and monocot seeds.	
Q.3 Multiple choice questions	10
 The only types of tissue in which cell are capable of dividing is 	
a) Epidermal b)Meristem	
c) Xylem d) Phloem	
type of living tissue has then walled, food storing cells.	
a) Parenchyma b) Collenchymas	
c) Schlerenchyma d) Aerenchyma	
3. CO_2 and O_2 are exchanged in plants mainly through theon leaves.	
a) Trinchomes b) Spines	
c) Stomata d) Oil glands	
4. Function of conduction in plants is assigned to	
a) Vascular tissues b) Edidermal tissues	
d) Secretory tissues c) Meristematic tissues	
5. The compactly arranged, columnar and chloroplast containing cells of leaf mesophyll are call	led as
a) Spongy parenchyma	
b) Palisade	
c) Guard cells	
d) Medullary rays	

- 6. Phelloderm is a part of.......
 - a) Corter
 - b) Epidermins
 - c) Mesophyll
 - d) Periderm
- 7. Egg apparatus of embryo sac is the association of......
 - a) Egg cell and nucleus
 - b) Egg cell and antipodals
 - c) Egg cell & polar nuclei
 - d) Egg cell and synergids
- 8. Integuments are.....in functions.
 - a)Protective
 - b)Nutritive
 - c) Decorative
 - d) Reproductive
- 9. Pollen grain are produced in.....
 - a) Pollen sac
 - b) Ovule
 - c) Embryo sac
 - d) Tapetum
- 10. In..... ovules, micropyle, embryo sac and chanlaga are inverted in position.
 - a) Orthotropous
 - b) Anatropous
 - c) Campylotropous
 - d) Atropous

SUBJECT CODE NO:- Y-2031 FACULTY OF SCIENCE

B.Sc. F.Y (Sem-II) Examination March/April 2017 Botany Paper- IV / (V 2009 Pattern) Diversity of Cryptogams-II

[Time	: 1:30 Hours]		[Max.Marks:50
	Please ch	eck whether you have got the right question paper.	
N.B	i) Attempt all ques	stions.	2000 0 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1
	ii) Illustrate your a	nswer with suitable labeled diagrams	8 8 9 9 9 9 V
			1, 16, 19, 19, 19, 19, 19, 19, 19, 19, 19, 19
			2,2,2,2,2
Q.1	Describe the structure of sporophyte of Marchantia		20
	Apple the best of a field of the		S. C. C.
	with the neip of suitable diag	grams describe the structure of the gametophyte of funaria.	12 60 1
Q.2	Describe the vegetative struc	ture of sporophyte of psilotum	20
		OR	
	Write short note on (Any fou		
	A)General characters of Bryo	phytes	
	B)Apophysis		
	C)Prothallus of Equisetum		
	D)External morphology of Ma	arsilea	
	E)Prothallus of Lycopodium		
	F)Sporophyte of selaginella		
Q.3	Multiple choice questions		
	1)Bryophytes grows in habita		
	a) Marshy	b)Dry	
	c)salty	d)moist	
	2)The most advanced sporop	(2) -6 (2) 4 (4) (7) (6) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) 	
	a)Funaria	b)Marsilea	
200	c)Marchantia	d)Lycopodium	
	3)In Funaria the reduction division takes place in the		
	a)Anthridium	b)Arch gonium	
30.C	c)Capsule	d)Zygote	
	4)Scales bearing bryophyter i	\$ <u>\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\</u>	
	a)Polytricum	b)Anthoceros	
20,0	c)Funaria	d)Marchantia	
	5)In bryophytes spores are _	<u> </u>	
35	a)Multi flagellate	b)Non-flagellate	

c)Biflagellate	d)None of these
6)Club moss is the common a)selaginella c)Equisetum	name of b)psilotum d)Lycopodium
7)Ligule and cone are found a)Selaginella c)Psilotum	in b)Lycopodium d)Marsilea
8) plant is common	lly known as water fern
a)Marsilea	b)Selaginella
c)Lycopodium	d)Psilotum
9)Ridges and Grooves is a fea	ature of stem of
a)Marsilea	b)Equisetum
c)Psilotum	d)Lycopodium
10)Endophytic mycorrhiza is	a feature of rhizome of
a)Marsilea	b)Equisetum
c)Psilotum	d)Lycopodium

SUBJECT CODE NO:- Y-2189 FACULTY OF SCIENCE

B.Sc. F.Y (Sem- I) Examination March/April 2017 Botany Paper-I Diversity of Cryptogams-I

[Time	: 1:30 Hours]	[Max.Marks:50
	Please check whether you have got the right question paper	
N.B	i) Attempt all questions.	
	ii) Illustrate your answer with suitable labelled diagram.	
Q.1	Explain in detail general characters nature of association and forms of thalli in Lick OR	hens. 20
	Explain systematic position, thallus structure and sexual reproduction in chara.	
Q.2	Describe systematic position, and reproduction in Agaricus.	20
		Note:
	Write short note on (any four)	
	a) General characters of mycoplasma.	Y
	b) Reproduction in Usnea	
	c) Vegetative reproduction in Nostoc.	
	d) General characters of algae.	
	e) General characters of fungi	
	f) A sexual reproduction in mucor.	
Q.3	Multiple choice questions.	10
-	Free living bacterium capable of fixing atmospheric nitrogen is	
	a) Stephalococcus.	_
	b) Streptococcus.	
	c) Azotobactor.	
	d) None of these.	
63/2	2) Cyphellae in lichen are analogous to of higher plants.	
LO OF	a) Stomata	
30 P	b) Palisade tissue	
No de	c) Mesophyll	
	d) Bundle sheath	
	3) Bacteriophages consist of	
100 CO	a) Carbon & nitrogen	
A 43.6	b) DNA	
CAR	c) Protein	
18 O.	d) Carbabydratae	

4)	Viru	uses first discovered by
	a)	K. M. Smith
	b)	E. C. Stakman
	c)	W. M. Stanley
	d)	D. Iwanowski
5)	Fen	nale sex organ of Batrachospermum is
	a)	Oogonium
	b)	Sporogonium
	c)	Archegonium
	d)	Carpogonium
6)	Ver	y elaborated post fertilization changes are seen in
	a)	Chara
	b)	Sargassum
	c)	Botrydium
	d)	Nostoe
7)	Me	mber of cyanophyceae are commonly called as
	a)	Blue green algae
	b)	Red algae
	c)	Brown algae
	d)	Green algae
8)	Wh	ite rust of crucifers is caused by
	-	Albugo candida
	b)	Pythium debaryonum
	c)	Cercospora personata
	- V	Phyllactenia
9) Tikka disease of groundnut is caused by		
A.	a)	Perenospora
800	b)	Cercospora
600	c)	Albugo
	7 /	Pythium
10)		gi differ from algae in being
	/ /- /	Heterotrophic
10/05		Autotrophic
200	c)	Parasitic
8	d)	Epiphytic

SUBJECT CODE NO:- Y-2190 FACULTY OF SCIENCE

B.Sc. F.Y (Sem- I) Examination March/April 2017 Botany Paper-II

Morphology of Angiosperms

[Time:	1:30 Hours]				lax.Marks:50
N.B	Please o i)Attempt all Ques		have got the right que	estion paper.	
IV.D		ารwer with suitable l	ahalad diagram		TO CO
	iijiilusti ate your ai	iswei with suitable i	abeleu ulagiairi.		
Q.1	Describe regions of Root, m	odification of root f	or mechanical support a	nd vital functions.	20
	Describe functions of stem	and under ground m	nodification of stem.		
Q.2	What is fruit and Describe v	rarious types of fruit OR			20
	Write short Notes on (any f	our)			
	a) Runner	The State of the second			
	b) Pitcher	8 2 7 7 9			
	c) umbel inflorescence	2222			
	d) cohesion of stamens				
	e) Sorosis fruit				
	f) Dispersal of seeds & fruit	s by water.		2, 9, 9, 9, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,	
Q.3	Multiple choice Question.			\$200 c	10
	1)The tap root system is co	mmonly Found in	799888874		
	a)Dicotyledons	b)Monocotyled	ons c)Bryophyt	a d)None of these	
	2)Phylloclade is a modificat				
	a)stem	b)Root	c)leaf	d)Petiole	
	3)When the apex of leaf is a	ound, is called as			
	a)Acute	b)Obtuse	c)Acuminate	d)Cuspidate	
	4)Fusiform Root is Found in	1013 200			
	a)Radish	b)Turnip	c)Carrot	d)Wheat	
á	5)Stalk of leaf is called as	27 A A 30 B 30 OF	Z OF SER		
V/V	a)Peduncle	b)Petiole	c)Pedicel	d)None of these	
60° 50	6) The main axis is elongate	ed in	р 		
2 CO	a)Receme b)Spike	c)Catkin	d)All the above	
3000	7)The elongated intenode k	etween corolla & Ai	ndroecium is known as_		
	a)Androphore	b)Gynophore	c)Gynandrophre	d)None of these.	
700kg	8) A stamen consist of filam	ent and			
	a)Carpet)Anther	c)both of these	d)None of these .	
SON A	9)Custard – apple is An etai	ioof			
2 6 C	a)Follicles b)achenes	c)Drupe	d)Berries.	
2000	10)The dispersal of seeds o	f chinehona and orc	hids takes place by		
000	a)Wind b)Wate	er c)Bats	d)Birds.		