BS/BGE-02/DSC-1

s lo surveirie 2,0.2,3 and adirect in .E

(CBCS) DON'T ROOM OFF

(2nd Semester) (b) Write the auntember difference between

BOTANY ME BOTE HOOK

Paper No.: BGE-02/DSC-1

(Plant Anatomy and Embryology)

Pass Marks: 40% Full Marks: 75

the Digital secondary are all Write's and on Time: 3 hours

> (PART : B—DESCRIPTIVE) 4. (a) Write sor s

(Marks: 50)

The figures in the margin indicate full marks for the questions

Answer any five questions

1. (a) Discuss the theories of root apical meristem. Explain the structure of a typical and

array of the control of the control

(b) Write notes on any two of the following:

5×2=10

- (i) Parenchyma
- (ii) Xylem
- (iii) Sclerenchyma

L23/517a

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(Turn Over)

2.	(a)	Describe the internal structure of a monocot root.	10
		Or	
	(b)	Write the anatomical difference between Dicot and Monocot stem.	10
3.	(a)	Describe the structure and function of vascular cambium.	10
	20	Or Comments	
		Define secondary growth. Write a note on the secondary growth in dicot root. 2+8=	=10
4	(a)	Write notes on the following: 5×2=	=10
	(u)	(i) Epidermis in plants	
		(ii) Types of stomata	
٠	38 .55	Or	8
	(h)	Give an account on the adaptive system	
	(D)	in xerophytes.	10
5.	(a)	Explain the structure of a typical anther with well differentiated wall layers.	10
	- 1	or or the term of the contract of	
0.1	0.000001100111	Write on the following: 5×2	=10
		(i) Anatropous ovule	
		(ii) Tetrasporic embryo sac	
L23,	/517		ued)

 (a) Define pollination. Write a note on the different types of pollination in plants.
 2+8=10

Or

(b) Write on the following:

 $5 \times 2 = 10$

- (i) Double fertilization
- (ii) Significance of seed dispersal
- 7. (a) Explain the types of endosperm.

10

Or

(b) Write on the following:

 $5 \times 2 = 10$

- (i) Characters of monocot embryo
- (ii) Role of endosperm in embryo development
- 8. (a) What is apomixis? Explain the types of apomixis. 2+8=10

Or

(b) Describe the practical application of apomixis.

(CBCS)	
(2nd Semester)	
BOTANY	
Paper No.: BGE-02/DSC-1	
(Plant Anatomy and Embryology)	
(PART : A—OBJECTIVE)	
(Marks : 25)	
The figures in the margin indicate full marks for the q	uestions
SECTION—I	
(Marks : 15)	
Put a Tick (/) mark against the correct answer in brackets provided: 1. Xylem is a	
(a) complex tissue () (b) simple tissue () (c) Both (a) and (b) () (d) None of the above ()	(in)
2. Histogen theory was proposed by worm when is a	1840
(a) Nageli ()	M.
(c) Peterson ()	(5)
(d) Hanstein (1) Appell with to enach	(15)
/517	ASS/BOSH

Exa	Exarch xylem is found in						
(a)	rachis ()						
<i>(b)</i>	root ()						
(c)	stem ()						
(d)	leaf ()						
	er containing cavities in the vascular bundles is a cacteristic feature of						
(a)	dicot root ()						
(b)	monocot stem ()						
(c)	monocot leaves ()						
(d)	dicot stem ()						
Hear	rtwood is also known as						
(a)	duramen ()						
(b)	sapwood ()						
(c)	non-porous wood ()						
(d)	porous wood ()						
	wth that increases the girth and thickness of the						
(a)	primary growth () () many time!						
(b)	secondary growth ()						
(c)	tertiary growth ()						
(d)	None of the above ()						
	(a) (b) (c) (d) Water (a) (b) (c) (d) Hear (a) (b) (c) (d) (c) (d) (c) (d) (c) (d) (c) (d) (c) (d) (d) (c) (d)						

	roma surrous						ie is	
						CATHERINE.		
(a)	anisocytic		()					
						calma	141	
(b)	paracytic	()					
(c)	anomocytic	:	()) 4			
(d)	diacytic	()					
8. Pla	nt cuticle is	prese	nt ex	ternal	to the	ili agah ili 10 to		
(a)	epidermis	()	90				
(b)	endodermis	3	(). 1		51.745		
(c)	cortex	()			(d=3)	german	(0)	
(d)	periderm	(_)					
9. Cyt	oplasm of th	e pol	len gr	rains i	s rich i	n personal	-9/4	
(a)	starch	()			0301207	Dia.		
(b)	proteins	()		lė .	STEAR	(T	
(c)	minerals	(
(d)	vitamins	ĺ)		q	reviser	101	
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10.	The	three chalazal cells of an embryo sac are called	
	(a)	synergids ()	
	(b)	antipodal cells ()	
	(c)	polar nuclei ()	
	(d)	chalaza ()	
	1.00.00	T J moneth 199	
721752			
11.		deposition of pollen on the stigma of another er of the same plant is known as	
	(a)	homogamy ()	
	(b)	dichogamy ()	
	(c)	geitonogamy ()	
	(d)	xenogamy ()	
12.	The	seed coat is formed from	
	(a)	integuments ()	
	(b)	ovary ()	
	(c)	endosperm () () (elamater (s)	
	(d)	pericarp () (ministry ()	
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13.	end	nich of the following dispersion of the following dispersi	followi		is the	main	function	on of	
	(a)	Transductio	n	()	i quine			
	(b)	Protection	()		*1			
	(c)	Restriction	()					
	(d)	Nourishmen	ıt	()				
14.	The	portion belo	w the	epi	cotyl is	3			76
	(a)	suspensor	()	66				
25	(b)	cotyledons	()				9 - 1 C	
	(c)	hypocotyl	()					
	(d)	None of the	abov	е	()			
			ş					퍞	
15.	The	term 'Apomi	xis' w	as c	oined	by			
	(a)	Ernst ()						
	(b)	Swingle	())					
	(c)	Winkler	()					
	(d)	Navashin	()					
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SECTION—II

(Marks: 10)

Write on the following in few sentences (any five):

1. Procambium

2. Conjunctive tissue

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3. Bulliform cells

S. Troperum

Xeropytes

5. Tapetum

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6. Apomixis

7. Orthotropous ovule