(i) Pri	inted	Pages : 2	Roll	No. 19	n/2013(E				
(ii) Questions : 9			Sub. Code: 0 2 5 4 Exam. Code: 0 0 0 3						
		B.A./B.Sc.	(General) 3rd	Semester					
			(2123)						
n.	(P)		BOTANY						
Paper—		Structure wering Plan		nt & Rep	production in				
Time All		: Three Hou	,	[Maxim	num Marks : 36				
Note: — Q. No. 1 is compulsory. Attempt only <i>one</i> question from each section. Attempt only <i>five</i> questions in total. 1. (A) Fill in the blanks:									
	(a)	The monoca	arpic plants are	e					
	(b)	Cuscuta she	ows	roots.					
	(c)	The bundle sheath extension in leaf istissue.							
	(d)	Mesogamy	isar	nd found i	n				
(B)	(B) Mark the correct answer:								
	(e)	The embryo sac of Polygonum contains:							
		(i) 7 cells	and 8 nuclei	(ii)	8 cells and 8 nuclei				
		(iii) Endos	perm	(iv)	Embryo				
(f) 3 triploid antipodals are found in embryo sacs									
		(i) Allium		(ii)	Oenothera				
		(iii) Frittile	aria	(iv)	Pepromia				
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	(g)	Wh	ich is correct for a poll	en tube	?				
	(6)	(i)	Exhibits chemotaxis	(ii)	Callose formati	ion			
		(iii)	Apical growth	(iv)	All of the above	ve			
	(h)	, ,	lloclades are found in:						
		(i)	Ruscus	(ii)	Opuntia				
		(iii)	Australian Acacia	(iv)	None of the above 8×1				
			SECTION—I						
2.	Describe the various morphological and anatomical modifications of storage roots.								
3.	Discuss with the help of suitable diagrams the various types of roots which develop from radical of embryo.								
			SECTION—I	I					
4.	With the help of suitable diagrams, describe the various types of underground stems.								
5.	What is a compound leaf? Describe its various types along with diagrams.								
			SECTION—II	П					
6.	Describe the structure of a male reproductive organ of an angiospermic plant with the help of diagrams.								
7.	Explain the development of male gametophyte in angiosperms upto entry in synergid.								
			SECTION—I	V					
8.	Write a detailed account of various types of Embryo sacs. 7								
9.	Describ	oe the	following:						
	(a) St	tructu	re of a typical ovule.						
	(b) D	ouble	fertilisation and its sign	nificance		7			
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