	(iv) Define allogamy.			Section-C				
	(v)	What is tripple fusion ?	4.	(a)	Differentiate between the following:			
	(vi)	The phenomena of pollination by ants is known			(i) Spring wood and Autumn wood			
		as the many bout (e.g.,) as			(ii) Sapwood and Heartwood			
	(vii)	The single cotyledon of monocots is known		(b)	Describe secondary growth in dicot root.	5,5		
		as	5.	(a)	Explain anomalous secondary growth in			
	(viii)	In xerophytes, the stomata are type.			Boerhavia stem.			
	(ix)	Periderm is composed of phellem,		(b)	Write short notes on the following:			
		and phelloderm.			(i) Lenticel			
	(x)	The root apex is protected by			(ii) Phellem	5,5		
		Section-B			Section-D			
2.	(a)	What is xylem ? Explain its components and	6.	(a)	Describe development of male gametophyte in			
		function in detail.			angiosperms.			
	(b)	What is root apical meristem ? Explain different		(b)	Only draw transverse section of mature anther			
		theories regarding root apical meristem. 5,5			in angiosperms.	5,5		
3.	(a)	Draw well labelled diagram of transverse section	7.	(a)	Explain process of megasporogenesis and			
		of dicot stem.			formation of functional megaspore in			
	(b)	Define meristem. Describe meristems based upon			angiosperms.			
		their position and functions. 5,5		(b)	Write a note on hydrophily in detail.	5,5		
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					2017/2017/2017		
		Section-E			Roll No.		
8.	(a)	Describe different types of endosperms in angiosperms.		Total No. of Questions: 9] (2034)	[Total No. of Printed Pages : 4		
9. ((b) (a) (b)	Describe structure of dicot seed. 5,5 Describe the development of typical monocot embryo. Give necessary diagrams. Differentiate between the following: (i) Generative fertilization and Vegetative fertilization (ii) Chalazogamy and Porogamy 5,5	5,5	UG (CBCS) IInd Year Annual Examination 2810 B.Sc. BOTANY (Plant Anatomy and Embryology) (DSC-IA) Paper: III BOTA 201 Time: 3 Hours] [Maximum Marks: 50			
			5,5	Note: Attempt five questions in all. Q. No. 1 (Section–A) is compulsory. Attempt one question from each Section–B, C, D and E. Attempt all sub-parts of a question together. Section–A			
				(Compulso 1. (i) Who proposed history	ry Question)		
				(iii) What is the function	of tapetum layer in anther ?		

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(1)

Turn Over