21BOT2C7L

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Sl. No.

M.Sc. II Semester Degree Examination, October - 2023 BOTANY

Plant developmental biology

(NEP)

Time: 3 Hours Maximus		Hours Maximum Marks	n Marks : 70	
Note	::	 Answer 5 question in all. Question No. 1 is Compulsory. 		
1.	Writ	te account on organization and development of RAM and SAM.	14	
2.	Exp	lain ABC model of flower development.	14	
3.	Exp	lain phases of endosperm development. Write note on storage protein.	14	
4.	Describe generation and characterization of developmental mutants.			
5.	Des	cribe biological database with examples and mention its application.	14	
6.	(a) (b) (c)	What is the difference between microsporogenesis and megasporogenesis? Write a note on a suspensor development in seed. How does nuclear cytology differ in monocot and dicots?	5 5 4	
7.	(a) (b) (c)	Detail on temporal and spatial expression pattern of developmental regulators in plants. Explain role of genetic manipulation in plant breeding. What are the effects of light on seedling growth?	5 5 4	
8.	Writ (a) (b) (c)	Seed dormancy and its types. Database for molecular interactions in gene networks. Ethical considerations of functional genomics in plants.	5 4 5	