Total No.	o. of Questions : 8]	SEAT No.:	
P3245	[5032]-302	[Tota	l No. of Pages :2
	M.Sc.		
	BOTANY		
]	Bo-3.2 : Developmental Biology and I	Economic B	otany
]	Bo-3.2 : Developmental Biology and I (2013 Pattern) (Semester - III) (New)		•
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Time: 3 I Instruction	(2013 Pattern) (Semester - III) (New) Hours] tons to the candidates:	(Credit Sys	tem)

Instructi	ons to the candidates:
1)	Attempt any five questions.
2)	All questions carry equal marks.
3)	Draw neat labelled diagram wherever necessary.
Q1) a)	Explain molecular mechanism of Cell-cell interaction. [4]
b)	Give an account of how polarity and symmetry maintain during development. [4]
c)	What is concept of 'Determination'. [2]
Q2) a)	Write an account of embryo development in monocot. [4]
b)	Discuss developmental mechanism of 'Megasporogenesis'. [4]
c)	State significance of double fertilization. [2]
Q3) a)	Explain molecular aspect of embryogenesis and seedling developement.[4]
b)	Write note on SAM. [4]
c)	What is 'Redifferentiation. [2]
Q4) a)	State the method of cultivation of Rubber. Add note on its products.[4]
b)	Comment on fibre industry. [4]
c)	State different varieties of strawberry. [2]

- **Q5)** a) Discuss in detail about the meristem as dynamic center of cell regeneration. [5]
 - b) Give an account of seed germination. [5]
- **Q6)** a) What is double fertilization? Write note on abnormalities in fertilization.[5]
 - b) Comment on cell differentiation, redifferentiation and dedifferentiation.[5]
- Q7) a) What is polyembryony? Describe its classes. [5]
 - b) Write economic importance of deodar and sandal wood. [5]
- **Q8)** a) Describe the method of cultivation of cinnamon. Add note on its economic importance. [5]
 - b) Discuss the role of organ culture in understanding the developmental process. [5]

