Total No. of Que	stions: 8	
------------------	-----------	--

SEAT No.:		
[Total	No. of Pages	:2

P3245

[5032]-302 M.Sc.

BOTANY

Bo-3.2: Developmental Biology and Economic Botany (2013 Pattern) (Semester - III) (New) (Credit System)

•)
All questions carry equal marks.	
Draw neat labelled diagram wherever necessary.	
Explain molecular mechanism of Cell-cell interaction. [4]	
development. [4]	ı
What is concept of 'Determination'. [2]	
Write an account of embryo development in monocot. [4]	
Discuss developmental mechanism of 'Megasporogenesis'. [4]	
State significance of double fertilization. [2]	
Explain molecular aspect of embryogenesis and seedling developement.[4]	
Write note on SAM. [4]	
What is 'Redifferentiation. [2]	
State the method of cultivation of Rubber. Add note on its products.[4]	
Comment on fibre industry. [4]	
State different varieties of strawberry. [2]	
	Explain molecular mechanism of Cell-cell interaction. Give an account of how polarity and symmetry maintain during development. What is concept of 'Determination'. Write an account of embryo development in monocot. Discuss developmental mechanism of 'Megasporogenesis'. State significance of double fertilization. [2] Explain molecular aspect of embryogenesis and seedling development. Write note on SAM. [4] Write note on SAM. [4] State the method of cultivation of Rubber. Add note on its products. [4] Comment on fibre industry. [4]

- 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]

