TE/VI/BT/CBUS/6)

Sten Cell Biology,

Attempt any 4 questions from Q.No. 2 to 6.

Q.No. 1 is compulsory.

All questions carry equal marks

BT/W/CBGS/SCB.

[20]

QP Code: 5201

(3 Hours)

[Total Marks: 80

9.1		7. 2●20	3
Q1.	An	swer the following (any 4):-	
	а	Explain how positive feedback inhibition con load to	[20]
	b	Describe the role of auxins in pattern generation of the primodial tissue	
	C	Explain the importance of cell death during development and hematopoiesis	
	đ	The state of the s	
Q2.	e	Explain the role of stem cells in treatment of stroke	
	a	What is a morphogen. Explain the mechanism of generation of a morphogen	£1
		gradient Displain me mechanism of generation of a morphogen	[10]
	b	Describe the various methods of genetically manipulating stem cells	
Q3.	а	Describe the role of cell to cell interest in manipulating stem cells	[10]
		Describe the role of cell to cell interactions in creating complex patterns during development	[10]
	b	Describe how stem cells can be used in cardiac repair	
Q4.	a	Explain the role of homeotic gener in G. 11	[10]
8	b	Explain the role of homeotic genes in floral development of Arabidopsis Explain the process of homeotic genes in floral development of Arabidopsis	[10]
	٠,	Explain the process of hematopoiesis and explain the survival of hematopoietic stem cells	[10]
Q5.	а		
	b	Write a short note on the role of stem cells in the renewal of epidermis	[10]
Ω6	U	Explain the fole of gene regulation during development	[10]
Q6.		Write a detailed note on Embruonia Cuami and	[TA]

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