

## DGG-012408

Seat No.

## M. Sc. (Sem. IV) (CBCS) Examination

April / May - 2015

Biochemistry: BC. EBC - 5

(Animal Cell Tissue Culture)

Time	e :	$2\frac{1}{2}$ Hours] [Total M	[arks : <b>70</b>		
Instructions:					
	1. 2. 3.	Attempt all questions.  Make suitable assumptions wherever necessary.			
	٦.	Figures on the right indicate full marks.			
Q-1.	An A.	The interest of the control of the c	14		
	В.				
	C.	1 2			
	D.				
	Ε.				
	F.	8-5			
	G.	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			
	Η.				
	I.	Define transformation			
	J.	What is swabbing and flaming?			
Q-2.	Answer any two of the following questions				
	A.				
	B.	Cell counting of animal cell using haemocytometer			
	C.	Write a short note on nature of cytotoxicity assay			
Q-3.	A.	Write a detailed note on Stem cell differentiation <i>In vivo</i> and <i>In vitro</i>	? 7		
	B.	Write a note on Cell Proliferation. Briefly describe control of proliferation and how the cell cycle is regulated by signals from	of cell 7		
		environment. OR			
	C.	Enlist different equipments required in the aseptic area of the animal t	icena		
	٥.	culture laboratory	7		
	D.	Discuss physicochemical properties of media	7		
Q-4.	An	swer the following questions	14		
V "	Α.	Write a short note on sources of contamination	14		
	B.	Define cryopreservation. Explain the principles of cryopreservation			
Q-5.	Answer the following questions (Any two)				
	A.	Note on preparation and sterilization of media			
	B.	Write a short note on eradication of microbial contamination			
	C.	Note on complete media for animal cell culture			
	D.	Discuss enzymatic disaggregation techniques for development of proculture	nmary		

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