M.Sc. (Biotechnology) (CBCS Pattern) Sem-III PSBIT109 - Animal Biotechnology Paper-I

P. Pages Time : Tl		ours $GUG/W/22/2$		
1.		cuss in details about various equipment's and materials required for animal cell culture mology along with advantages & Limitations. OR	nimal cell culture 16	
	a)	Write in details about various types of culture media used for Animal cell culture.	8	
	b)	Describe various characteristics of cells in Animal cell culture.	8	
2.	Wh	at are cell lines? Describe in details about maintenance & management of cell lines. OR	16	
	a)	Discuss methods of separation of cell types along with it's limitations.	8	
	b)	Give a detailed account of primary culture.	8	
3.		at is Tissue engineering? Give detailed account of Design & engineering of Tissue & modeling.	x 16	
	a)	OR Discuss in details about cell synchronization & cell manipulation.	8	
	b)	What is Apoptosis? Discuss the role of cytochrome-C in it.	8	
4.		cuss details about how a biologically important product like vaccine can be mass duced using Animal tissue culture. OR	s 16	
	a)	Give a detailed account of manipulation of Reproduction in Animals.	8	
	b)	Give details about various applications of Animal cell culture.	8	
5. a)	Wri	te a note on function of different constituents in culture medium.	4	
b)	Giv	e a brief account of three dimensional cultures.	4	
c)	Wri	te various applications of embryonic stem cells.	4	
d)	Wr	te a note on IVF.	4	
