## B.Sc. CBCS Pattern Semester-VI

## **BIO2 - Biotechnology Paper-II : Animal Biotechnology**

	Pages: 2 ne:Three I	Hours * 6 7 2 0 *	Max. Marks : 50
	Note:	All questions are compulsory.	
1.	Ex	plain various systems of animal tissue culture with its advantages and lin	mitations. 10
	a)	Discuss about natural media.	21/2
	b)	Give the chemical functions of different constituents of culture mediu	m. <b>2¹</b> / <sub>2</sub>
	c)	Write a note on cell-cell communication.	21/2
	d)	Describe the role of CO <sub>2</sub> in culture medium.	21/2
2.	W	hat is isolation of cell? Discuss various methods of separation of cell typ <b>OR</b>	es. 10
	a)	Give the information about suspension culture.	21/2
	b)	Discuss the behaviour of cells in primary culture.	21/2
	c)	Write a note on germplasm conservation.	21/2
	d)	Describe explant culture.	21/2
3.	W	hat is stem culture? Give the information about embryonic stem cells with	h its application. 10
	,	OR	21/
	a)	Discuss the role of cytochrome C in apoptosis.	21/2
	b)	Give the information about cell cloning.	21/2
	c)	Write a note on cell synchronization.	21/2
	d)	Discuss about three dimensional culture.	21/2
4.	Ex	plain in detail about In vitro fertilization technology.	10
		OR	
	a)	Describe the production of vaccine.	21/2
	b)	Write a note on artificial insemination.	21/2
	c)	Give the information about transgenic animal.	21/2
	d)	Discuss about the production of Insulin.	21/2

## 5. Attempt **any ten**. (One mark each)

a)	Define cell culture.	1
b)	What is synthetic media?	1
c)	What is the role of serum in culture media?	1
d)	Define primary culture.	1
e)	What is Cryopreservation?	1
f)	What is germplasm?	1
g)	Define apoptosis.	1
h)	What is cell manipulation?	1
i)	Enlist any two applications of embryonic stem cells.	1
j)	What is the role of insulin in human body?	1
k)	What is the importance of vaccine?	1
1)	Give the full form of IVF.	1

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