Registration no:															
Total Number of Pages: 02 B.Tech															
5 th Semester Regular Examination 2017-18 Plant & Animal Biotechnology BRANCH: BIOTECH Time: 3 Hours Max Marks: 100 Q. CODE: B189 Answer Part-A which is compulsory and any four from Part-B.															
The figures in the right hand margin indicate marks.															
Q1	Answer the	tollow	ing c	ques	tions	s: mu	IItipie	type	or a	asn 1	ш ир	type		((2 x 10)
a)															
•	The first succ a) Sheep Disaggregati a)Physical di b)Enzymatic c)Treating wi d)All of the a	b) (ng of co sruption disrupt ith chea	Goat ells can n tion	an¹be	e ach	c) Mo	onkey	′	d) Gib l	bon		210		210
d)	The concentration of CO ₂ required for culturing animal cells?														
₂₁₀ e)	The most common indicators used in animal cell culture medium are?														
f)	Embryonic stem cells are derived from thecell masses of normal blastocyst.														
g)	gene mediate the transfer of Ti plasmid into plant cell.														
h)		method used for direct gene transfer in to the plant cell.													
i) 210 j)	plant genome	е.		210			210			210			gration of the state of the sta		210
Q2 a) b)	Answer the Define molec systems? What is disar	cular fa ming o	rming f Ti p	g? Na lasm	ame [.] id?	two r	ecom	binan	t vaco	cines	•		σ.	olant	(2 x 10)
210 C)	Some living plant cells have the capacity to give rise to whole organism. What is the term used to describe this property?									210					
d) e) f)	Which hormodynamics which is the Agrobact comment? What is the	most co cterium	ommo is co	only nside	used ered	cultu as "n	re me atura	edium I gene	for ca etic er	allus d ngine	culture er of p	∋? plants.'		the	
²¹⁰ h) i) j)	Write two imp What is nature Derive an ex	oortant ral med	appli lia?	catio	n of a	anima	al cell	cultu	re?	210			210		210

Q3 ;	b)	Give a brief account of genetically modified her Give a sketch of the bid you?	bicide resistant	plants with suita	able examples?	•	(10) (5)			
Q4	•	What is somatic hybrid somatic hybrid?		•	or screening ar	nd selection of	(10)			
	b)	Describe different method	ods of <i>micro-pro</i>	ppagation?			(5)			
Q5	a) b)	sterilize the equipment and the media in the laboratory? Write note on organ culture technology. What is a cell line? Write note on type of cell lines and factors affecting the subculture in vitro? Briefly explain measurement of parameters of growth of animal cell. What are synthetic seeds? Describe the various methods of synthetic seed production and its implication?								
Q6 :										
Q7 :	a) b)									
Q8	a) b)	What is <i>hybridoma t</i> production of monoclo antibody? Briefly explain Biotransf	nal antibody?	•	•		(10) (5)			
Q9 ;	a) b)	What is tissue enginee tissue engineering? Write short notes on ce	te a note on fut	ure of tissue end		and scope of	(10) (5) ²¹⁰			
210		210	210	210	210	210	210			
210		210	210	210	210	210	210			
210)	210	210	210	210	210	210			