'sal	Printed	<b>Pages</b>	:	3

(b)

Maintaining plasma content

Roll No	9
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## P-254

## B. Sc. (Biotechnology) Part - III Examination, 2017

Paper: XI

## (Animal Biotechnology)

Tim	ie : Th	ree Hours]	[ Maximum Marks : 75
		SECTION - A	[ Marks : $1 \times 10 = 10$
Not	e: A	Attempt all questions. Each question carries 01 marks.	
1.	Wh	ich of the following stimulate glycogenolysis?	
	(a)	Insulin and glucagon	
	(b)	Glucagon and epinephrine	
	(c)	Insulin and epinephrine	
	(d)	Glucagon and nor epinephrine	,
2.	Cus	shing's disease is caused by excess production of :	
	(a)	Growth hormone (b) TSH	
	(c)	Thyroid hormone (d) ACTH	
3.	Insu	ılin has 51 amino acids arranged in :	
,	(a)	Single polypeptide	
	(b)	Two polypeptide of 21 and 30 amino acids	
	(c)	Two polypeptide of 25 and 26 amino acids	
	(d)	Three polypeptide of 15, 16 and 20 amino acids	
4.		yme TPA or tissue plasminogen activator is used for :	
_	(a)	Dissolving blood clots	

	(c)	Clearing	turbidity	of juices				
	(d)	Stimulati	ng throm	boplastin pro	oduction			
5	. Kol	ıler and Mi	lstein dev	reloped Biote	chnology	for:		
	(a)	Monoclo	nal antibo	odies	(b)	Myeloma		
	(c)	lmmobili	zation of	enzyme	(d)	Steroid con	version	
6	6. First hormone produced artificially by culturing bacteria is:							
	(a)	Insulin			(b)	Thyroxine	•	
	(c)	Testostero	one		(d)	Adrenaline		
7.	A bi	oreactor is	* *					
	(a)	Fermental	tion tank		•			
	(b)	Culture co	ntaining	radioactive is	otopes			
	(c)			is of new cher	-			
	(d)	Hybridom		•				
8.	The f	full form of	HGPRT i	s	*** *			
9.	Com	mercial ins	ulin is pro	oduced by :				
			-	B. subtilis	(c) P	`.aeruginosa	(d) S. aureus	•
10.	Name	e the drug p	oroduced	through biote	chnology f	or cancer trea	tment :	
	(a)	Insulin	(b)	Interferon	(c) H	GH .	(d) TSH	
	•		• .	SEC	TION - B		[ Marks : 5 × 7 = 3	35
Note	e: Att	empt any <i>se</i>	even ques	ions. Each qu	estion carri	es 05 marks.	•	
1.	Cryop	reservation	of Embry	<i>7</i> 0		•		
2.	Interfe	ron		*4			,	
3.	Tissue	plasminoge	en activate	or.	•		•	•
		I						
4.	RFLP	,						

- 5. Transplanting cultured ceils
- 6. In vitro (ertilization
- 7. Monoclonal antibodies
- 8. Growth hormones
- 9. Germplasm Conservation
- Polyclonal antibodies

SECTION - C

[ Marks :  $10 \times 3 = 30$ 

Note: Attempt any three questions. Each question carries 10 marks.

- 1. Explain the procedures and selection criteria for making an hybridoma and an EBV- transformed cell line.
- 2. How do you create transgenic mice? Write about the research opportunities and applications of transgenic animals.
- Discuss the applications of various types of PCR in the diagnosis of animal diseases.
- Describe basics of animal cell culture techniques. Give brief application of animal cell culture.