[Tim	e: 03 Hours.]	[Marks: 100]
N.B:	 All questions are compulsory and carry equal marks. Figures to the right indicate full marks. Draw neat and labelled diagrams wherever necessary. Answer the questions in proper order. 	SELENT LE
Q. 1	Describe Any Two of the following:	(20)
a)	Classification of enzymes based on Enzyme Commission.	
b)	Factors affecting enzyme activity.	
c)	Enzyme inhibition with reference to competitive inhibitor and its kine	tics.
		3
Q. 2	Explain Any Two of the following:	(20)
a)	Non shivering thermogenesis.	35
b)	Physiological adaptations in terrestrial animals with reference to osmo	oregulation.
c)	Mechanisms of heat loss.	
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Q. 3	Give an account on Any Two of the following:	(20)
a)	Mechanisms of hormone action. The histological structure of thereid gland, its hormones and their form	nationa
b)	The histological structure of thyroid gland, its hormones, and their fun	ictions.
c)	Histological structure of Pancreas and its hormones.	
Q. 4	Describe Any Two of the following:	(20)
a)	Effect of temperature, pH and CO2 in cell culture.	(20)
b)	Types of culture media.	
c)	Preparation of cells for tissue culture.	
	reparation of cens for tissue culture.	
Q. 5	Write short notes on: (Any Four)	(20)
(a)	Isozymes.	(=0)
b)	Circadian rhythms.	
c)	Disorders of over secretion of growth hormone of Pituitary gland.	
d)	Parathormone.	
e)	Importance of sterility in cell culture.	
f)	Coverslip culture.	

NO.		