QP Code: 77053

		(2½ Hours)	[Total Marks : 75	
N.E	B.: (1)	All questions are compulsory.		
	(2)	All questions carry equal marks.		
	(3)	Draw neat labelled diagrams wherever necessary.		
	(4)	Questions should be answered in order.		
1.	Descr	ibe the following:		
	(a)	Mechanism of enzyme action. OR	7	
	(a)	Different classes of enzymes.	7	
	• • •	Derivation of Michaelis-Menten equation.	. 8	
	(0)	OR	0	
. •	(b)	Chemical structure of enzymes.	8	
2.	Expla	in the following:		
	(a)	Concept and classification of chemical messengers.	7	
		OR		
	(a)	GABA as a neurotransmitter.	7	
	(b)	Acetylcholine as a neurotransmitter.	8	
		OR		
	(b)	Mode of working of neurotransmitters.	8	
3.	Describe the following:			
	(a)	Possitive feedback mechanism with suitable example. OR	7	
	(a)	Ionic regulation in iso-osmotic environment.	7	
	(b)	Role of brown fat in thermogenesis.	. 8	
		OR		
	(b)	Problems of living in terrestrial environment.	8	
4.	Expla	in the following:		
	(a)	Myogenic heart.	7	
		OR		
	(a)	Endocrine regulation of pregnancy in mammals.	. 7	

QP Code: 77053

2

	(b) Chemical and nervous regulation of heart.	8
	OR	
	(b) Menstrual cycle.	8
5.	White about note and	
٥.	Write short note on:	
	(a) Enzyme as a biocatalyst.	4
	OR	
	(a) Effect of pH on enzyme activity.	4
	(b) Neurosecretory substances.	4
	OR	
	(b) Aspartic acid.	4
	(c) Daily torpor.	4
	OR	
	(c) Acclimatization.	4
	(d) Estrous cycle.	. 3
	OR	,
	(d) Suction pump in open circulation.	3