Bachelor of Science (B.Sc.) Semester—VI (C.B.S.) Examination

ZOOLOGY

(General Mammalian Physiology-II)

Paper—1

Tim	ne: Three Hours]	[Maximum Marks : 50
N.B	 3.:—(1) All questions are compulsory. (2) All questions carry equal marks. (3) Draw well labelled diagrams wherever necessary. 	
1.	Describe the process of generation of a nerve impulse. Add a note on trans	mission of the impulse
	across a myelinated nerve fibre.	10
	OR	
	Write notes on :	
	(A) Role of calcium in muscle contraction.	5
	(B) Ultrastructure of started muscle.	5
2.	Describe in detail the counter-current mechanism of urine concentration.	10
	OR	
	Write notes on:	
	(A) Dialysis.	5
	(B) Ultrastructure of Malpighian corpuscle.	5
3.	Describe the structure and functions of thyroid gland.	10
	OR	
	Write notes on :	
	(A) Structure of pituitary gland (diagram only).	5
	(B) Hormones of the adrenal medulla and their functions.	5
4.	Describe the various male and female sex hormones.	10
	OR	
	Write notes on :	
	(A) Oestrus cycle.	5
_	(B) In-vitro fertilization.	5
5.	Write four or five lines on the following (any ten):	
	(i) Nissl's granules.	
	(ii) Sarcomere.	
	(iii) Muscle Twitch.	
	(iv) Juxta glomerular nephrons.	
	(v) Micturition.	
	(vi) Active secretion.	
	(vii) ADH.	
	(viii) Cushing's disease.	
	(ix) Addison's disease.(x) Loop.	i e
	(xi) Graffian follicle.(xii) Corpus Luteum.	10
	(AII) COIPUS LUCUIII.	10