B.Sc. Part-III Semester-V Examination ZOOLOGY

ANIMAL PHYSIOLOGY AND ECONOMIC ZOOLOGY

Time: T	hree	Hours]		[Maximum Marks: 80)		
N.B.:	(1)	All questions are compulsory.					
	(2)	Question No. 1 carries 8 marks and	remaining S	SIX questions carry 12 marks each.			
	(3)	Illustrate your answers with suitable diagram wherever necessary.					
1. (a)	Fill	in the blanks:					
	(i)	All vertebrates have a type	e of circula	tory system.			
	(ii)	In the peripheral nervous system n	nyelin sheat	h is produced by			
	(iii)	Zoological name of the pink bollw	vorm is				
	(iv)	Antheraea mylitta is a sil	lkworm mo	th. 2	!		
(b)	Cho	pose correct alternative from the fol	lowing:				
	(v)	Hormones are the secretion of	gland.				
		(a) Endocrine	(b)	Paracrine			
		(c) Autocrine	(d)	Exocrine			
	(vi)	is the pest of sugarcane.					
		(a) Dysdereus	(b)	Contarinia			
		(c) Earias	(d)	Pyrilla			
	(vii)) Testosterone is responsible for the	growth of	·			
		(a) Prostate gland	(b)	Seminal vesicle			
		(c) Pubic hairs	(d)	All the above			
	(viii)	Cipla is a common name of	·				
		(a) Labeo rohita	(b)	Catla catla			
		(c) Rita rita	(d)	Cyprinus carpio	,		
(c)	Λns	swer in ONE sentence:					
	(ix)	What is apiculture ?					
	(x)	What is node of Ranvier?					
	(xi)	What is blood plasma?					
	(xii) What is function of testosterone ?		4	ļ		
2. Exp	olain	the following:					
(a)	Hae	emoglobin					
WPZ -82	89	1		(Contd.)		

	(b) A,B,O system of blood groups	
	(c) Pace maker	12
	OR	
	(d) Haemocyanin	
	(e) Functions of blood (any five)	
	(f) Auriculo ventricular valves.	12
3.	Describe the following:	
	(g) Single muscle twitch	
	(h) Rigor mortis	
	(i) Chemical composition of striated muscle.	12
	OR	
	(j) Tetanus	
	(k) Neuromuscular junction (diagram only)	
	(I) Fatigue.	12
4.	Explain the following:	
	(m) E.M. structure of neuron (diagram only)	
	(n) Pituitary gland; major Hormones names only	
	(o) Cretinism	12
	OR	
	(p) Resting potential	
	(q) Hormenes of adrenal medulla	
	(r) Dwarfism	12
5.	Describe estus cycle.	
	OR	
	Describe thermo regulation in poikilotherm.	12
6.	Give an account of Sericulture.	
	OR	
	Describe life-cycle, damage and control of any two pests of cotton.	12
7.	Attempt the following:	
	(s) Nursery pond	
	(t) Fish manure and fish leather	
	(u) Pollyculture	12
	OR	
	(v) Rearing pond	
	(w) Induced breeding	
	(x) Fish liver oil.	12