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AW-1746

# B.Sc. (Part-III) Semester-V Examination ZOOLOGY

(Animal Physiology and Economics Zoology)

Tin	ne : Tl	irce l	Iour	s]	ogy and Econ	om	[Maximum Marks :	80		
				All questions are comp	ulsory.		<b>L</b>	5.53		
			(2)	Question No. 1 carries each.	8 marks and re	ema	aining SIX questions carry 12 mark	S		
			(3)	Illustrate your answer v	vith suitable dia	agra	am wherever necessary.			
1.	(A)	Fill	in th	e blanks :						
		(i)	(i) Clumping of blood cells is known as							
		(ii)	The junction between neuron and muscle is called							
		(iii)	Skeletal muscles is commonly called as							
		(iv)	promotes normal development and activity of the thyroid gland. 2							
	(B)	Choose correct alternative from the following:								
		(v)	Her	moglobin is found in :						
			(a)	Muscle	(	(b)	Red blood cells			
			(c)	Kidney	(	(d)	Backbone			
		(vi)	Wh	Which of the following is the structural unit of the nervous system:						
			(a)	Alveoli	(	(b)	Nephron			
			(c)	Neuron	(	(d)	Leucocyte			
		(vii) The process of sperm production takes place in :								
			(a)	Epididymis	(	(b)	Vasdeferens			
			(c)	Prostate gland	(	(d)	Seminiferous tubules			
		(viii)	ne gland is under the control of:							
			(a)	Pineal gland	(	(b)	Adrenal gland			
			(c)	Hypothalamus	(	(d)	Thyroid gland	2		
	(C)	Answer in one sentence each:								
		(ix)	Def	ine respiratory pigment.						
		(x)	Wh	at is Bipolar neuron?						
		(xi)	Def	ine muscle fatigue.			,			
		(xii)	Giv	e any two examples of b	eneficial insect	s.		4		

(Contd.)



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۷.	Auc	inpt the following .					
	(a)	Haemoglobin					
	(b)	Structure of Human heart (diagram only)					
	(c)	Transportation of O <sub>2</sub> .					
		OR					
	(d)	Functions of blood					
	(e)	Haemocyanin					
	(f)	Structure of gills (diagram only).	12				
3.	Des	cribe the Neuromuscular Junction.					
		OR					
	Des	eribe the mechanism of Muscle Contraction.	12				
4.	Give	Give an account:					
	(g)	E.M. structure of Neuron (diagram only)					
	(h)	Acetylcholine					
	(i)	Hormones of Islets of Langerhan's.					
		OR					
	(j)	Myelinated and non-myelinated nerve fibres (diagram only)					
	(k)	Acromegaly					
	(1)	Synaptic transmission.	12				
5.	Atte	mpt the following:					
	(m)	Hormonal control of reproduction in male					
	(n)	Functions of Placenta					
	(o)	Poikilotherms.					
		OR					
	(p)	Diestrous phase					
	(q)	Osmoregulation in aquatic animals					
	(r)	Estrous cycle.	12				
6.	Des	cribe the following:					
	(s)	Economic importance of spiders					
	(t)	Uses of Honey					
	(u)	Pest of Jowar.					
		OR					
	(v)	Life cycle of Bombyx mori (diagram only)					
	(w)	Economic importance of rodents					
	(x)	Types of Honeybee.	12				
7.	Des	cribe the Chinease Circular Hatchery.					
		OR					
	Des	cribe the Monoculture, Polyculture and Penculture.	12				