

www.FirstRanker.com

www.FirstRanker.com

AW-1746

B.Sc. (Part—III) Semester—V Examination ZOOLOGY

			(Animal Physiolo	gy and Econor	nic	s Zoology)		
Time : T	hree I	Iour	s]			[Maximum Marks :	80	
N.E	3. :	(1)	All questions are compu	lsory.				
		(2)	Question No. 1 carries 8 each.	marks and ren	nair	ning SIX questions carry 12 mark	ks	
		(3)	Illustrate your answer wi	th suitable diag	ran	n wherever necessary.		
1. (A)	Fill	in th	e blanks :					
	(i) Clumping of blood cells is known as							
	(ii)	The junction between neuron and muscle is called						
	(iii)	Ske						
	(iv)	promotes normal development and activity of the thyroid gland.						
(B)	Choose correct alternative from the following:							
	(v)	Hen	noglobin is found in:					
		(a)	Muscle	(b)) I	Red blood cells		
		(c)	Kidney	(d)	ŀ	Backbone		
	(vi) Which of the following is the structural unit of the nervous system:							
		(a)	Alveoli	(b)) 1	Nephron		
		(c)	Neuron	(d)	1	Leucocyte		
	(vii)	1:						
		(a)	Epididymis	(b)) '	Vasdeferens		
		(c)	Prostate gland	(d)) 5	Seminiferous tubules		
	(viii) Pituitary gland known as the 'Master' endocrine gland is under the control of:							
		(a)	Pineal gland	(b)) /	Adrenal gland		
		(c)	Hypothalamus	(d)) .	Thyroid gland	2	
(C)	Ans	wer	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 be	neficial insects.			4	

www.FirstRanker.com www.FirstRanker.com

2.	Atte	attempt the following :								
	(a)	Hacmoglobin								
	(b)	Structure of Human heart (diagram only)								
	(c)	Transportation of O.								
		OR								
	(d)	Functions of blood								
	(c)	Haemocyanin								
	(f)	Structure of gills (diagram only).	12							
3.	Des	cribe the Neuromuscular Junction.								
		OR								
	Des	cribe the mechanism of Muscle Contraction.	12							
4.	Give	ive 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								
	(0)	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							