This question paper contains 3 printed pages]

BF-118-2016

FACULTY OF SCIENCE

B.Sc. (Third Semester) EXAMINATION NOVEMBER/DECEMBER, 2016

ZOOLOGY

Paper VII

(Comparative Anatomy and Physiology)

(MCQ & Theory)

				(MOQ &	Tilcoly)	8 8 6 8 6 8 8 8 A					
(Sat	urd	ay,	10-12	2-2016)		Time: 2.00 p.m. to 4.00 p.m.					
Time—2 Hours						Maximum Marks—40					
N.B.	:	(i)) A	Λll questions are compul							
	(ii)) [Use separate (OMR) answer sheet for Question No. 1.							
		(iii) [Draw well labelled diagrams wherever necessary.							
		(iv) All questions carry equal marks									
				(MC	(\mathbf{Q})						
	Se	\mathbf{lect}	corr	ect answer from the give	en multipl	e choice: 10					
	(i)	6 P	Nail	s and hoofs are example	es of:						
			(a)	Connective tissue	(b)	Bony tissues					
			(c)	Epidermal origin	(d)	Cartilage tissue					
	(ii)	Ship	Inco	mplete four chambered l	neart is fo	found in:					
			(a)	Pisces	<i>(b)</i>	Amphibia					
			(c)	Aves	(d)	Reptiles					
	(iii		Indu	on was proposed by :							
			(a)	Emil Fisher	<i>(b)</i>	Koshland					
		3,00	(c)	Krebs	(d)	Barnad					
	(iv)		Rick	cets disease caused due t	to the defi	e deficiency of :					
	5 6 6	2007 2007	(a)	Vitamin-D	<i>(b)</i>	Vitamin-A					
NE CENTRAL PROPERTY OF THE PERTY OF THE PERT		NO S	(c)	Vitamin-B ₁₂	(d)	Vitamin-E					

P.T.O.

WT				(2)		BF—118—2016	
	(v)	All enzymes are:							
		(a)	Protein and Lipi	ds					
		(<i>b</i>)	Protein and Carl	bohy	yder	ates			
		(c)	Protein only		X S	2 12 12 12 12 12 12 12 12 12 12 12 12 12	A 67		
		(d)	Lipid and Carbo	hyd	erat	es			
	(vi)	The digestion of carbohyderates occurs in:							
		(a)	Stomach				(b)	Intestine	
		(c)	Buccal cavity				(d)	All of these	
	(vii)	Right atrium of mammalian heart receives blood from:							
		(a)	Sinus venosous				(b)	Pulmonary vein	
		(c)	Pre-cavals			300	(d)	Pre and Post-cavals	
	(viii)	The animals excrete the excretary products in the form of urea are							
		called as:							
		(a)	Ammonotelic	O DE	75 P		(b)	Ureotelic	
	A 0	(c)	Uncotelic				(d)	Purinotelic	
	(ix)	(ix) The structural and functional unit of nervous system i							
		(a)	Ganglian	78/2/ 26/2/2		525	(b)	Nephridia	
	ON THE STATE OF	(c)	Neuron			SEPT.	(d)	Flame cells	
	(x)	Cardi	iac muscles are pr	ese	nt i	n:			
		(a)	Heart	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			(b)	Brain	
		(c)	Kidney	6,			(d)	Liver	
				(Th	eoı	ry)			
2.	Give a	an acc	ount of comparati	ve a	anat	tomy	of i	ntegument of vertebrates. 10	
NA OF		3000			Or				
K C T	Write	Write notes on:							
	(a)	Comparative account of fish and amphibian kidney							
	(b)	Structure of synapes.							
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WT	(3))			BF	-118-	-2016

3. Explain mechanism of enzyme action with reference to lock and key hypothesis and induced fit model.

Or

Write notes on:

- (a) Protein digestion
- (b) Physiology of urine formation.
- 4. What is respiration? Explain respiratory organs in man.

Or

10

Write notes on:

- (a) ECG and blood pressure
- (b) Cardiac muscles.