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AW-1693

B.Sc. Part-II (Semester-III) Examination ZOOLOGY

Time :	Three		urs	nordata and	[Maximum Marks	: 80	
Note :	-(1)	AL	L questions are compul	sory.			
	(2)	Queac		arks and remai	ning SIX questions carry 12 marks	s	
	(3)	Illu	Illustrate your answer with suitable diagrams wherever necessary.				
1. (A	A) Fill	in t		2			
	(i)	Am	phioxus is commonly ki	nown as			
	(ii)	Sw	the skin of class				
	(iii)	The	d arthropoda is				
	(iv)	The Rana tigrina is commonly called as					
(E	B) Cho	oose the correct alternative from the following :				2	
	(v)		is a cartilaginous	fish.			
		(a)	Catla	(b)	Labeo		
		(c)	Cyprinus	(d)	Scoliodon		
	(vi)	Co	iling around eggs to gua	ard them is for	und in		
		(a)	Echidna	(b)	Ichthyophis		
		(c)	Salamander	(d)	Calotes		
	(vii	The	e mammalian kidney is				
		(a)	Protonephric	(b)	Mesonephric		
		(c)	Metanephric	(d)	None of these		
	(viii) Ho	mo erectus evolved in				
		(a)	Asia	(b)	Europe		
		(c)	Africa	(d)	Australia		
((C) Ans	wer	in ONE sentence each	:		4	
	(ix)	W	hat is gene flow?				
	(x)	malian heart ?					
	(xi)	Na	me of the additional cha	ambers of Sco	liodon heart.		
	(xii						
2. G	ive an	n with its mechanism.	12				
				OR			
D	escribe	the	digestive system of An	nphioxus.			
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3.	Exp	Explain the following:								
	(a)	External features of Rana tigrina.								
	(b)	Internal structure of heart of frog. (Only labelled diagram).								
	(c)	Urinogenital system of female calotes.								
	OR									
	(d)	Parental care in anura.								
	(e)	Internal structure of heart of calotes. (Only labelled diagram)								
	(f)	Snake venom.								
4.	Des	cribe the migration in birds.	12							
		OR								
	Des	escribe the salient features of Prototheria.								
5.	Exp	lain the following:	12							
	(g)	Embryological evidences of evolution								
	(h)	Petrified fossils								
	(i)	Peripatus as connecting link.								
		OR								
	(j)	Anatomical evidences of evolution								
	(k)	Importance of fossils records								
	(1)	Radioactive carbon dating of fossils.								
6.	5. Describe the following :									
	(m)	Gene frequency								
	(n)	Sympatric speciation								
	(0)	Hardy Weinberg equilibrium. OR								
		OR								
	(p)	Genetic drift								
	(q)	Natural selection								
	(r)	Convergent evolution.								
7.	Atte	empt the following :	12							
	(s)	Ramapithecus								
	(t)	Aortic arches in fish								
	(u)	Desert adaptation.								
		OR								
	(v)	Dryopitheeus								
	(w)	Neanderthal man								
	(x)	Terrestrial adaptation.								