

## www.FirstRanker.com

## www.FirstRanker.com AW-1693

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

Tr:		Life and Diversity of Cl	nordata and	The second of the second second			
Time:	[Maximum Marks : 80						
Note:—(1) ALL questions are compulsory.							
(2) Question No. 1 carries 8 marks and remaining SIX questions carry 12 marks							
	eac		avitabla diaam	ama wharara saasaani			
1 (4	(3) Illustrate your answer with suitable diagrams wherever necessary.						
1. (A	) Fill in the blanks :						
		(i) Amphioxus is commonly known as					
	(ii) Sweat and sebaceous glands are found in the skin of class						
	(iii) The	d arthropoda is					
	(iv) The						
(B	) Choose	ving:					
	(v) is a cartilaginous fish.						
	(a)	Catla	(b)	Labeo			
	(c)	Cyprinus	(d)	Scoliodon			
	(vi) Coiling around eggs to guard them is found in						
	(a)	Echidna	(b)	Ichthyophis			
	(c)	Salamander	(d)	Calotes			
	(vii) The mammalian kidney is						
	(a)	Protonephric	(b)	Mesonephric			
	(c)	Metanephric	(d)	None of these			
	(viii) Homo erectus evolved in						
	(a)	Λsia	(b)	Europe			
	(c)	Africa	(d)	Australia			
(C	(C) Answer in ONE sentence each:						
	(ix) What is gene flow?						
	(x) How many chambers are present in mammalian heart?						
	(xi) Name of the additional chambers of Scoliodon heart.						
	(xii) Sound producing organ of birds.						
2. Gi	2. Give an account of respiratory system of Scoliodon with its mechanism.						
OR							
Describe the digestive system of Amphioxus.							

## www.FirstRanker.com

### www.FirstRanker.com

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	cribe the salient features of Prototheria.					
5. Ex		lain the following:					
	(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.	Des	cribe the following:	12				
	(m)	Gene frequency					
	(n)	Sympatric speciation					
	(o)	Hardy Weinberg equilibrium.					
		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)	Dryopithecus					
	(w)	Neanderthal man					
	(x)	Terrestrial adaptation.					