B.Sc. Part-II (Semester-III) Examination ZOOLOGY (Life and Diversity of Chordata and Concept of Evolution)

Time—Three	Hours] [Maximum Marks—80
Note :(1)	All questions are compulsory.
(2)	Question No. 1 carries 8 marks and the remaining SIX questions carry 12 marks each.
(3)	Illustrate your answer with suitable diagrams wherever necessary.
1. (A) Fill	in the blanks:
(i)	The liver of the dog fish is lobed.
(ii)	The Rana tigrina is commonly called as
(iii)	Amphioxus is also called as
(iv)	Connecting link between Annelida and Arthropoda is 2
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(B) Che	pose correct alternative from the following:				(n)	Physiological evidences of evolution	
(v)	Kid	Kidney of Pigeon is			(o)	Archaeopteryx.	
	(a)	Mesonephros				OR	
	(b)	Opisthonephros			(p)	Anatomical evidences of evolution	
		Metanephric		- -	(q)	Cast and Moulds.	
	(c)	-			(r)	Peripatus.	12
		Pronephric		6.	Giv	ve an account of Darwinism.	
(vi)		eory of use and disuse of posed by	organs originally			OR	
- 184 :		Weisemann	` .		Def	fine speciation and modes of speciation.	12
	*			7.	Des	scribe the following:	
	(b)	Lamark			(s)	Ramapithecus.	
	(c)	Hugo de Vires			(t)	Desert adaptations.	
	(d)	Muller			(u)	Basic Plan of aortic arches in the vertebrates	
(vii) The	e Venom of Cobra is	· -		-	OR	
	(a)	Haemotoxic			(v)	Modern Man.	
	(b)	Neurotoxic			(w)	Terrestrial adaptations.	
	(c)	Histolytic		4	(x)	Aortic arches in Birds.	12
	(d)	None of these					
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		(viii) Ano	ther name for Ductus Cuvieri is	
		(a)	Aorta	
		(b)	Common Cardinal Veins	
		(c)	Caudal Artery	
		(d)	Parietal Veins	2
	(C)	Answer i	n ONE sentence:	
		(ix) Giv	e two types of snake venom.	
	-	(x) Gard	den lizard is include in which order o	f reptilia.
		71 7	v many chambers are present in nmals?	heart of
		(xii) Def	ine Fossils.	4
2.	Des	cribe the f	ollowing:	
	(a)	Wheel or	gan.	
	(b)	Mechani	sm of respiration in Scoliodon.	
	(c)	Affinities	of Amphioxus with Annelida.	
OR				
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	(d)	Feeding mechanism of Amphioxus.					
	(e)	External characters of Scoliodon.					
	(f)	Significance of Migration in fishes.	12				
3.	Des	cribe the following:	*				
	(g)	Cutaneous respiration in Rana tigrina.					
	(h)	Heart of Garden lizard.					
	(i)	Parental Care in Amphibia (Any one exam	nple).				
OR							
	(j)	External characters of Garden Lizard.					
	(k)	Male urinogenital system of Rana tigrina only).	(diagram				
	(1)	Snake Venom.	12				
4.	Desc	cribe Migration in Birds.					
		OR					
	Desc	ribe the salient features of Metatheria and Pro	ototheria. 12				
5.	Desc	ribe the following:					
	(m)	Radioactive carbon dating of fossils.					
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