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

## (Life and Diversity of Chordata and Concept of Evolution)

Γim	e : Th	iree F	lour	s]			[Maximum Marks: 80
	Note	: <b>:</b> —	(1) (2) (3)	All questions are cor Question No. 1 carrie Illustrate your answe	es 8 marks and	I remaining <b>Six</b> que e diagram wherever	
1.	(A)	oda.					
	<ul><li>(iv) Summer sleep of Frog is called as</li><li>(B) Choose correct alternative from the following :—</li></ul>						2
	(-)			er venom is			
			(a)	Neurotoxic	(b)	Non-poisonous	
			(c)	Haemotoxic	(d)	None of above	
		(vi)	Inst	ılin is a			
			(a)	Vitamin	(b)	Lipid	
			(c)	Hormone	(d)	Enzyme	
		(vii)	Kid	lney of an adult mam	mal is		
			(a)	Pronephros	(b)	Mesonephros	
			(c)	Opithonephros	(d)	Metanephros	
		(viii)					
			(a)	Opossum	(b)	Kangaroo	
			(c)	Bandicoots	(d)	Wombat	
	(C)	Ans	4				
	(xi) What is difference between endocrine gland and exocrine gland?						nd?
		(xii)	Wh	at type of skull is foun	nd in Apes?		
2.	Desc	cribe	the s	tructure and working o	of heart of scoli	odon.	12
					OR		
	Desc	cribe	the D	Digestive System of Am	phioxus.		
3.	Expl	lain th	e foll	lowing:		•	12
	(a)	Pare					
	(b) Snake venom.						
	(c) Urinogenital System in male Rana-tigrina (diagram only).						
					OR		
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					1		(Contd.)

	(d)	External features of Frog (diagram only)		
	(e)	Male urinogenital system of Calotes.		
	(f)	External features of heart of frog.		
4.	Desc	ribe the respiratory system in pigeon.		12
			OR	
	Desc	cribe the salient features of Prototheria.		
5.	Expl	ain the following :—		12
	(g)	Biochemical evidences of evolution.		
	(h)	Archeopteryx as connecting link.		
	(i)	Radioactive carbon dating of fossils.		
			OR	
	(j)	Importance of fossil record.		
	(k)	Analogous and homologous organs		
	(I)	Fossilization.		
6.	Expl	ain the following:—		12
	(m)	Gene pool		
	(n)	Divergent evolution		
	(o)	Genetic drift.		
			OR	
	(p)	Darwinism		
	(q)	Coevolution		
	(r)	Hardy-Weinberg equilibrium.		
7.	Exp	lain the following :		12
	(s)	Modern man		
	(t)	Aortic arches in birds		
	(u)	Terrestrial adaptation		
			OR	
	(v)	Neanderthal man		
	(w)	Aquatic adaptation		
	(x)	Aortic arches in mammals.		