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

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

Time : Three Hours]					[Maximum Marks: 80		
No	ote :	(2)	All questions are compulsory.  Question No. 1 carries 8 marks a 12 marks each.  Illustrate your answer with suitable		-	•	
1. (A	) Fill	Fill in the blanks :					
	(i)	Hea	art of frog is chambered.				
	, -		al sacs are well developed in		-		
	, ,		urinogenital system is a combinati		xcretory and	-	
			ulus is an example of fossil.			. 2	
(B	*		correct alternative from the following	ıg:			
	(v)		art of scoliodon is :				
			Pulmonary	. ,	Cardial		
			Arterial	(d)	Branchial		
	(vi)		ult frog is:	4.	***		
			Ureotelic	. /	Uricotelic		
	/ ***		Amonotelic	(d)	None of above	e .	
	(VII)		laying mammal is :	4.	17		
			Platypus Whale		Koala		
	A. 155		Kangaroo				
	(VIII)		neritance of Acquired Character" th			:	
		(a)	Pasteur	(d)	Redi Darwin	2	
(C	'\ A=0	. ,	Lamarck in one sentence:	(4)	Datwiii	2	
(C	,						
	, ,		w many pairs of gill pouches are pr at are Homologous organs?	esent n	sconodon:		
	, ,		at is neurotoxic venom?				
	. ,		at is poikilotherm?		•	4	
	(Aii)	44 11	at is postionicini				
VTM-1	3375		. 1			(Contd.)	

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2.	Explain the following:		
	(a) Holobranch		
	(b) Endostyle		
	(c) Scroll valve.		
		OR	
	(d) Wheel organ of Amphioxus	•	
	(e) Significance of migration in fish	es	
	(f) Neuromasts.		12
3.	Describe heart of Frog.		
	•	OR	*
	Describe the urinogenital system of	female calotes.	12
4.	Explain the following:		
	(g) Thyroid gland		
	<ul><li>(h) Types of migration in birds</li></ul>		
	<ol><li>External features of pigeon.</li></ol>		
		OR	
	(j) General characters of protother	ia	
	(k) Morphological flight adaptation	S	
	(l) Pancreas.		12
5.	Explain the following:		
	(m) Embryological evidences of evo	lution	
	(n) Peripatus as connecting link		
	<ul><li>(o) Trails and foot prints.</li></ul>		
		OR	
	(p) Living fossils		
	(q) Type of fossils	•	
	<ul><li>(r) Carbon dating.</li></ul>		12
б.	Explain the following:		
	(s) Inheritance of acquired charact	ers	
	(t) Convergent evolution		
	(u) Natural selection.		
		OR	
	(v) Struggle for existence		
	(w) Hardy-Weinberg equilibrium		
	(x) Parallel evolution.		12
7.	Describe the evolution of aortic arcl		
		OR	
	Give an account of aquatic and desc	ert adaptations.	12
VTN	1—13375	2	1050
* * 1.7	p market a life	***	1020