This quest	tion pa	aper contains 3 printed pages]	
		Roll No.	
S. No. of (	Questic	on Paper : 1474	
Unique Pa	per Co	ode : 2231301	F-7
Name of th	ne Pap	er : Diversity and Distribution of Chordata	a.
Name of the	ne Cou	rse : B.Sc. (Hons.) Zoology (FYUP)	
Semester		: III	
Duration:	3 Hou	rs	Maximum Marks: 75
	(Write	your Roll No. on the top immediately on receipt of	this question paper.)
•	Attem	pt Five questions in all including Question No. 1 v	which is compulsory.
		Draw suitable diagrams wherever requir	ed.
1. (a)	Defi	ne the following:	6
	(i)	Osmoconformer	
	(ii)	Protostomes	
	(iii)	Zoogeography	
	(iv)	Adaptive radiation	
	(v)	Neoteny	
	(vi)	Ratitae.	
( <i>b</i> )	Diff	erentiate between the following pairs of terms:	8
	<i>(i)</i>	Amniotes and Anamniotes	

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	(ii)	Altitudinal and Latitudinal migration	
	(iii)	Anapsid and Diapsid skull	•
	(iv)	Homocercal and Heterocercal tail.	
c)	Clas	sify the following upto orders:	5
	(i)	Rat fish	
	(ii)	Flying dragon	
	(iii)	Squirrel	
	(iv)	Lamprey	
	(v)	Midwife toad.	
d)	Give	e exact location of the following:	4
	(i) ·	Wheel organ	
	(ii)	Endostyle	
	(iii)	Chloride cells	
	(iv)	Spiracle.	
(e)	Assi	ign the following animals to their Zoogeographical regions:	4
	(i)	Tuatara	
	(ii)	Protopterus	
	(iii)	Macropus	
	(iv)	Pavo.	

Describe distinctive features of class Mammalia.

Discuss the affinities of Sphenodon.

2.

(b)

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Give a detailed account of evolution of terrestrial ectotherms. 3. 12 Describe salient features of aerial adaptation in birds, with the help of well labelled 4. 12 diagrams. 5. Give an account of migration in fishes and write its significance. 12 Comment upon Archaeopteryx as a connecting link between Reptiles and Aves. 6. 7 (a) 5 (b) Discuss the general characteristic features of Agnatha. 7. Write short notes on any three of the following: 4,4,4 Fauna of oriental region (a) Fangs in snake (b) Parental Care in Fishes Dipleurula theory of Chordata origin. (d)