This question paper contains 4 printed pages.

Your Roll No.

Sl. No. of Ques. Paper: 125

Unique Paper Code : 32231301

Name of Paper

: Diversity of Chordates

Name of Course

: B.Sc. (Hons.) Zoology

Semester

: III

Duration

: 3 hours

Maximum Marks

: 75

(Write your Roll No. on the top immediately on receipt of this question paper.)

Attempt five questions in all, including Question No. 1 which is compulsory. All the parts of a question must be attempted together. Draw neat and labelled diagrams, wherever necessary.

1. (a) Fill in the blanks:

- (i) are called the tail feathers in birds.
- The term 'Realm' was coined by
- (iii) is a lizard with bifid tongue.
- (iv) Limbless amphibians belong to the order
- marsupial is present in North (v) America.
- (vi) Ornithorhynchus and Echidna belong subclass 6

(b) (Give the exact location of the following:	(vi) Peacock belongs to the order galliformes.
((i) Endostyle	(c) Sphenodon
((ii) Hatschek's pit	2. (a) Give an account of larval forms in protochordate with example.
((iii) Jacobson's organ	
((iv) Rhamphotheca	(b) All vertebrates are chordates but not all chordate
((v) Carapace. 5	are vertebrates. Justify. Also enlist any four characteristic features of vertebrates.
(c) (Give the function of the following:	9,
((i) Preen gland	3. (a) Discuss origin and ancestry of Amphibia.
((ii) Operculum	(b) Describe the biting mechanism of a poisonou
((iii) Chloride cells	snake. 6,
((iv) Lateral line.	
(d) 1	Differentiate between the following:	4. (a) Explain the mode of osmoregulation in teleosts.
((i) Archaeornithes and Neornithes	(b) What is adaptive radiation? Explain with
((ii) Cycloid and Ctenoid scale	reference to locomotory appendages in mammals.
((iii) Urochordata and Cephalochordata	6,6
	(iv) Proteroglyphous and Opisthoglyphous. 6	5. (a) Discuss parental care in fishes.
(e) S	State True or False:	(b) Enumerate the general characters of Prototherians.
1510 ((i) Tornaria larva belongs to Balanoglossus.	
Nove Nove	(ii) One pair of temporal fossae is present in anapsids.	6. Give an account of migration in birds.
gas	(iii) Kiwi is restricted to the forests of New Zealand only.	7. Write short notes on any three of the following:
((iv) Cyclostomes are jawed vertebrates.	(a) Catadromous migration
, ((v) Devonian is the age of reptiles.	P. T. O.

- (c) Sphenodon
- (d) Retrogressive metamorphosis. 4,4,4