[This question paper contains 4 printed pages.]

Your Roll No.....

Sr. No. of Question Paper: 1088

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Unique Paper Code

: 2232012301

Name of the Paper

: Diversity of Chordates

Name of the Course

: B.Sc. (H) Zoology NEP-

UGCF

Semester

III

Duration: 2 Hours

Maximum Marks: 60

Instructions for Candidates

- 1. Write your Roll No. on the top immediately on receipt of this question paper.
- 2. Answer four questions in all.
- 3. Question No. 1 is compulsory.
- 4. Draw well labelled diagram wherever needed.

- 1. (a) Define the following terms (any three): (3)
 - (i) Operculum

(ii) Preen gland
(iii) Diastema
(iv) Stomochord
(v) Opisthoglyphous fangs
(b) Differentiate between the following terms (any two): (4)
(i) Physostomous and Physoclistous swim bladder.
(ii) Tornaria and Tadpole larvae.
(iii) Altricious and precocious birds.
(c) Give the function of the following (any four):(4)
(i) Nuptial pads
(ii) Buccal funnel
(iii) Jacobson organ
(iv) Keel
(v) Crop
(vi) Weberian ossicle

(d) Give the scientific names and classify u (any two):	pto order (4)
(i) Australian Lung fish	
(ii) Hagfish	
(iii) Duck billed platypus	
(iv) Flying lizard	
2. (a) Compare and discuss the characterismodern-day living agnathans.	stics of (8)
- (b) Describe osmoregulation by teleost fishes and freshwater? How does shark maintain osmoregulation?	in sea in their
3. (a) Explain various characteristic features which bird to adapt to aerial mode of life.	
 (b) A classic example of adaptive radiations seen in mammalian locomotory appendix Explain with examples. 	(8) can be dages. (7)
4. (a) Give an elaborative account of parental c amphibians.	are in (9)

- (b) Explain plate tectonic theory and comment on the fauna of Australian realm. (6)
- 5. (a) Write a detailed note on origin of Tetrapods.

(7)

- (b) Briefly explain the poison apparatus and biting mechanism in snakes. (8)
- 6. Write short notes on any three of the following: (15)
 - (i) Wallace and Weber line
 - (ii) Origin of chordates
 - (iii) Retrogressive metamorphosis
 - (iv) Sphenodon