Roll No.

(04/17-I)

5226

B. Sc. EXAMINATION

(Fourth Semester)

ZOOLOGY

Paper First

Life and Diversity of Chordates-II

Time: Three Hours Maximum Marks: 40

Note: Attempt Five questions in all, selecting two questions from each Section. Q. No. 1 is compulsory. Draw well labelled diagrams wherever you feel necessary.

(Compulsory Question)

- 1. Answer the following in about 20 words each:
 - (a) Panniculous adiposus
 - (b) Double accommodation

- (c) Conus papillaris
- (d) Bidder's canal
- (e) Diastemma
- (f) Synsacrum
- (g) Fangs
- (h) Arbor vitac
- (i) Vocal sacs
- (j) Brow spot.

Section I

- 2. (a) Draw a well labelled diagram of internal structure of heart of Hemidactylus.
 - (b) How would you differentiate between the poisonous and non-poisonous snakes?

4,31/2

- 3. Explain different models of respiration in frog.Also describe their mechanism. 7½
- 4. Descibe the structure of brain of Hemicdactylus. 7½

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- 5. (a) What is Parental Care? Write in brief about parental care in amphibians.
 - (b) A short note on Scymauria as connecting link between amphibians and reptiles.

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Section II

- 6. (a) Draw a neat and well labelled diagram of V.S. Eye of Pigeon.
 - (b) A note on Morphological Adaptations of birds for flight. 4,31/2
- 7. Give an account of various types of feathers in birds. 7½
- 8. (a) Explain the structure of Internal ear of Rat.
 - (b) Structure of Mammalian tooth. 4,31/2
- 9. (a) Describe male urinogenital system of Rat.
 - (b) A note on adaptive radiations in metatherians. 4½,3

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