

Roll No. ....

(07/22-II)

5226

**B. Sc. EXAMINATION**

(Fourth Semester)

**ZOOLOGY**

Paper-I

Life and Diversity of Chordates-II

*Time : Three Hours*

*Maximum Marks : 40*

**Note :** Question No. 1 is compulsory consisting of ten parts (1 mark each). *Four* more questions are to be attempted, selecting *two* questions from each Section. These four questions carry equal marks.

1. Define the following terms : 1×10=10
- (a) Vomerine teeth
  - (b) Spiral valve of heart
  - (c) Down feathers

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P.T.O.

- (d) Conus Papillaris
- (e) Sinus Venosus
- (f) Crop
- (g) Cochlea
- (h) Ramphotheca
- (i) Payer's Patches
- (j) Acrodont teeth.

### Section A

2. Write short notes on the following :
- (a) Sound producing organ of frog 3½
  - (b) Olfactory organs of *Hemidactylus* 4
3. Describe internal structure and working of heart in frog. 7½
4. Describe the arterial system in *Hemidactylus*. 7½
5. Write notes on the following :
- (a) Pulmonary Respiration in Frog 3½
  - (b) Key to Poisonous and Non-poisonous snakes. 4

## Section B

6. What is a Feather ? Give the structure of a typical feather. Also discuss various types of feathers. 7½
7. Write notes on the following :
- (a) Syrinx of Pigeon 4
- (b) Trigeminal Nerve. 3½
8. Discuss the excretory system of Rat in detail. 7½
9. Write short notes on the following :
- (a) Perching mechanism in birds 4
- (b) Internal ear in Rat. 3½