

77253

B.Sc. EXAMINATION, 2023

(Fourth Semester)

(Regular & Re-appear)

ZOOLOGY

Paper I

Life and Diversity of Chordates-II

Time : 3 Hours]

[Maximum Marks : 40

Note : There are total of nine questions in the paper and attempt *five* questions including the compulsory question. Question No. 1 is compulsory consisting of ten parts (1.5 marks each). Answer to each part should not exceed 20 words. Out of remaining eight questions, attempt *four* questions selecting at least *two* questions from each Section.

1. Write short notes on the following : 15
- Aestivation
 - Metachrosis
 - Jacobson's organ
 - Poison apparatus
 - Syrinx
 - Keel
 - Pecten
 - Diastema
 - Amplexus
 - Corpora quadrigemina.

Section A

- Write a note on parental care in amphibians. 3
- Describe briefly the ear of frog. 3.25
- Describe the digestive system of frog with well labeled diagram. 6.25

4. (a) Write a note on extinct reptiles by giving suitable examples. 3
- (b) Describe poison apparatus in snakes. 3.25
5. (a) Give an account of Hemipenis in lizard. 2.25
- (b) Write a note on cloaca of lizard. 2
- (c) Briefly describe ventricles of lizard brain. <https://www.crsuonline.com> 2

Section B

6. Give a detailed account of flight adaptations in birds. 6.25
7. (a) Explain different types of feathers in pigeon. 3
- (b) Give a brief account of air-sacs in pigeon. 3.25

8. Explain the digestive system of rat with well labeled diagram. 6.25
9. Write short notes on the following :
- (a) Dentition in mammals. 3
- (b) Ear of rat with well labeled diagram. 3.25