

(i) Printed Pages : 2

Roll No. ....

(ii) Questions : 9

Sub. Code :

0	2	5	5
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Exam. Code :

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B.A./B.Sc. (General) 3<sup>rd</sup> Semester  
(2123)

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### ZOOLOGY

Paper—(I : Biodiversity (Chordates) & Evolution—I (ZOO-301))

Time Allowed : Three Hours]

[Maximum Marks : 36

**Note** :— Attempt *five* questions in all including question number I which is compulsory and selecting *one* question from each unit. Draw neat and clean diagrams.

I. Answer the following :

- (a) Define storage excretion
- (b) Iter
- (c) Connecting link
- (d) Diagnostic characters of chordates
- (e) What is tunic ?
- (f) Cells of Joseph
- (g) Cornea of Labeo
- (h) Bidders canal.

1×8=8

## UNIT—I

- II. (a) Explain migration in Chordates with the help of suitable examples. 3+4=7  
(b) Neural complex of *Herdmania*. 7
- III. Explain circulatory system of *Amphioxus*. 7

## UNIT—II

- IV. Discuss the respiratory system of *Labeo*. 7
- V. Write notes on :  
(a) Air Bladder  
(b) *Protopterus*. 4+3=7

## UNIT—III

- VI. (a) Discuss the mechanism of cutaneous respiration and its importance in Frog.  
(b) Write a note on sound producing organ Frog. 4+3=7
- VII. Explain the Digestive System of *Hoplobatrachus tigerinus*. 7

## UNIT—IV

- VIII. (a) Explain Miller and Urey's experiment for organic Evolution.  
(b) Differentiate between missing link and connecting link. 5+2=7
- IX. Explain DE VRIES mutation theory of organic evolution. 7