

(i) Printed Pages: 2

Roll No.

(ii) Questions : 9

Sub. Code :

0	3	5	5
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Exam. Code :

0	0	0	4
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**B.A./B.Sc. (General) 4th Semester
(2054)**

ZOOLOGY

**Paper—I : Biodiversity (Chordates) & Evolution-II
(ZOO-401)**

Time Allowed : Three Hours]

[Maximum Marks : 36

**Note :—(1) Attempt FIVE questions in all, selecting at least
ONE question from each Unit.**

(2) Question No. 1 is compulsory.

(3) Draw well labelled diagrams wherever required.

1. Define the following :

(a) Bundle of His

(b) Hemipenis

(c) Foramen of Monro

(d) Pigeon's milk

(e) Bowman's capsule

(f) Hepatic portal vein

(g) Biological species concept

(h) Petrified fossils.

1×8=8

UNIT—I

2. Describe the digestive system of *Uromastix*. 7
3. (a) Classify up to order and write a brief ecological note on the following :
(i) *Testudo*
(ii) *Chamaeleon*. 2.5×2=5
- (b) Write a short note on poison apparatus of a snake. 2

UNIT—II

4. Explain the respiratory system of *Columba*. 7
5. Draw well labelled diagrams of the following in *Columba* :
(a) Vertical section of Eye
(b) Membranous labyrinth. 4,3

UNIT—III

6. Explain the Urinogenital system of Male Rat. 7
7. (a) Classify up to order and write a brief ecological note on the following :
(i) *Echidna*
(ii) *Capra*. 2.5×2=5
- (b) Write a short note on dentition in mammals. 2

UNIT—IV

8. Discuss the methods for dating fossils. 7
9. Write short notes on the following :
(a) Cromagnon man
(b) Macroevolution. 4,3