

(i) Printed Pages: 2 Roll No.

(ii) Questions : 9 Sub. Code :

0	3	5	5
---	---	---	---

Exam. Code :

0	0	0	4
---	---	---	---

B.A./B.Sc. (General) 4th Semester

1059

ZOOLOGY

Paper-I : Biodiversity (Chordates) and Evolution-II (Zoo-401)

Time Allowed : Three Hours]

[Maximum Marks : 36

Note :— Attempt **FIVE** questions in all, selecting **ONE** question from each unit. Question No. **1** is compulsory. Draw neat and well labelled diagrams wherever necessary.

1. Explain briefly :—

- (a) Vomeronasal organ
- (b) Pterylosis
- (c) Bursafabrics
- (d) Syrinx
- (e) Hepatic portal vein
- (f) Root less teeth
- (g) Geographical isolation
- (h) Asphalt.

1×8=8

UNIT—I

2. (a) Describe in detail the male reproductive system of *Uromastix*. 5
- (b) Write an ecological note on *Phrynosoma*. 2
3. Describe in detail the structure of ear of *Uromastix*. 7

UNIT—II

4. Describe in detail the brain of Pigeon. 7
5. (a) Give an account of excretory system in Pigeon. 5
- (b) Write an ecological note on *Eudynamis*. 2

UNIT—III

6. Discuss the organs and mechanism of respiration in Rat. 7
7. Write ecological notes on :—
 - (a) *Didelphis* 3
 - (b) *Macaca* 2
 - (c) *Pteropus* 2

UNIT—IV

8. Write notes on :—
 - (a) Different kinds of fossils 3½
 - (b) Adaptive radiation 3½
9. What are the characters of primates ? Trace the evolutionary history of man. 7