

(i) Printed Pages: 3]

Roll No.

(ii) Questions : 9]

Sub. Code :

0	3	5	5
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Exam. Code :

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**B.A./B.Sc. (General) IVth Semester
Examination**

1047

ZOOLOGY

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

Time : 3 Hours]

[Max. Marks : 36

Note :- Attempt *five* questions in all, selecting at least *one* question from each unit. Question No. 1 is compulsory.

1. Answer the following briefly :

- (a) Hibernation in *Uromastix*
- (b) Foramen of Panizzae
- (c) Air sacs in pigeon
- (d) Uropygial gland

N-78

(1)

Turn Over

- (e) External characters of rat
- (f) Foramen of Monro
- (g) Micro evolution
- (h) Neanderthal man

1×8=8

Unit-I

2. Write notes on any *two* of the following :

- (i) Buccopharyngeal cavity of *Uromastix*
- (ii) Working of *Uromastix* heart
- (iii) Forebrain of *Uromastix*

3½+3½=7

3. Explain in detail the difference between poisonous and non-poisonous snakes. Write briefly about treatment of snake bites.

7

Unit-II

4. Describe the arterial system of *Columba*.

7

5. Classify any *two* of following and write ecological notes on them :

- (i) *Pavo*
- (ii) *Eudynamis*
- (iii) *Alcedo*

3½+3½=7

Unit-III

6. Write notes on any *two* of the following :

(i) Structure of kidney of rat

(ii) Structure of testis of art

(iii) Working of rat eye

$3\frac{1}{2}+3\frac{1}{2}=7$

7. Classify any *two* of following and write ecological notes on them :

(i) *Macropus*

(ii) *Panthera*

(iii) *Manis*

$3\frac{1}{2}+3\frac{1}{2}=7$

Unit-IV

8. Explain macro and mega evolution.

7

9. Discuss the biological concept of species.

7