

(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) 4th Semester
1048**

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. Support your answers with appropriate diagrams, wherever necessary.

1. Answer the following briefly :
 - (a) Hibernation in Uromastix
 - (b) Poisonous snakes
 - (c) Perching muscles of pigeon
 - (d) Meninges of brain in pigeon
 - (e) Give the dental formula of rat
 - (f) Parts of respiratory system of rat
 - (g) Relationship of man with other primates
 - (h) Define mega evolution.

1x8=8

UNIT-I

2. Explain the structure of brain in Uromastix. 7
3. Write brief ecological notes on any two of the following :
(i) Hemidactylus
(ii) Calotes
(iii) Eryx. 7

UNIT-II

4. Explain any two of the following :
(i) Digestive glands of pigeon
(i) Structure of a typical feather in pigeon
(ii) Structure of spinal cord in pigeon. 3.5+3.5=7
5. Describe the respiratory system of pigeon. 7

UNIT-III

6. Give an account of the digestive system of rat. 7
7. Write brief ecological notes on any two of the following :
(i) Ornithorhynchus
(ii) Loris
(iii) Canis. 3.5+3.5=7

UNIT-IV

8. Write brief notes on:
(i) Biological concept of species
(ii) Macro evolution. 3.5+3.5=7

9. Explain in detail the evolution of man beginning from prehuman ancestors.

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