

(i) Printed Pages : 2

Roll No.

(ii) Questions : 9

Sub. Code :

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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 Allowed : Three Hours]

[Maximum 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.

1×8=8

UNIT-I

2. Explain the structure of brain in *Uromastix*.

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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

(ii) Structure of a typical feather in pigeon

(iii) Structure of spinal cord in pigeon.

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

5. Describe the respiratory system of pigeon.

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UNIT-III

6. Give an account of the digestive system of rat.

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7. Write brief ecological notes on any **two** of the following :

(i) *Ornithorhynchus*

(ii) *Loris*

(iii) *Canis*.

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

UNIT-IV

8. Write brief notes on :

(i) Biological concept of species

(ii) Macro evolution.

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

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

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