

(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) 4<sup>th</sup> Semester**

**1046**

**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.

1. Answer the following briefly :-

- (a) Jacobson's Organs
- (b) Poison apparatus of snakes
- (c) Pecten
- (d) Habitat of *Casuarinus*
- (e) Economic importance of rat
- (f) Heterodont dentition in mammals
- (g) Microevolution
- (h) Biological species.

1×8 = 8

**UNIT—I**

2. Give an account of the respiratory system of *Uromastix*.

7

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

- (i) *Chelone*
- (ii) *Vipera*
- (iii) *Crocodylus*.

3½ + 3½ = 7

**0353/BIK-365**

**[Turn over**

## UNIT—II

4. Explain any **two** of the following :-
- (i) Mechanism of respiration in *Columba*
  - (ii) Structure of eye of *Columba*
  - (iii) Structure of internal ear of *Columba*.  $3\frac{1}{2} + 3\frac{1}{2} = 7$
5. Describe the flight adaptations of pigeon. 7

## UNIT—III

6. Explain the anatomy of the heart of rat. 7
7. Write brief ecological notes on any **two** of the following :-
- (i) *Echidna*
  - (ii) *Funambulus*
  - (iii) *Herpestes*.  $3\frac{1}{2} + 3\frac{1}{2} = 7$

## UNIT—IV

8. Write concise notes on :-
- (i) Contribution of fossils in evolution of species.
  - (ii) Mega evolution.  $3\frac{1}{2} + 3\frac{1}{2} = 7$
9. Give a concise account of the evolution of man. 7