

This question paper contains 3 printed pages.]

Your Roll No.

1344

A

B.Sc.(Hons.)/II
ZOOLOGY–Paper III
[Animal Diversity–II (Chordata)]
(Admissions of 2004 and onwards)

Time : 3 Hours

Maximum Marks : 55

*(Write your Roll No. on the top immediately
on receipt of this question paper.)*

Attempt **Five** questions in all, including
Question No. 1, which is compulsory. Attempt not
more than two questions from each Section.

1. (a) Define ; 5

- (i) Carnassial tooth
- (ii) Mesonephros
- (iii) Chordae tendinae
- (iv) Hyoglossal
- (v) Antlers

[P.T.O.]

- (b) State the location of the following : 4
- (i) Spiral valve
 - (ii) Uropygeal gland
 - (iii) Gill raker
 - (iv) Hatschek's groove
 - (v) Pecten
 - (vi) Hypapophysis
 - (vii) Uvula
 - (viii) Ampulla of Lorenzini
- (c) Differentiate between the following terms : 5
- (i) Nail and Hoof
 - (ii) Procoelus and Heterocoelous vertebra
 - (iii) Uterus duplex and uterus simplex
 - (iv) Yellow spot and Blind spot
 - (v) Bunodont and bleteris dont
- (d) Give scientific names and classify the following upto orders : 5
- (i) Lamprey
 - (ii) Hammer headed shark
 - (iii) Midwife toad
 - (iv) Sea snake
 - (v) Hedgehog

SECTION-A

2. Discuss flight adaptations in birds. 9
3. (a) Give an account of origin of terrestrial ectotherms. 5, 4
(b) Explain retrogressive metamorphosis in urochordates :
4. Write notes on any *two* of the following : 4.5, 4.5
 - (i) Migration in fishes
 - (ii) Affinities of *Herdmania*
 - (iii) General characters of *Agnatha*

SECTION-B

5. Discuss evolution of aortic arches in vertebrates. 9
6. Describe respiratory organs of fishes. 9
7. Write notes on any *two* of the following : 4.5, 4.5
 - (i) Phylogeny of Lungs
 - (ii) Autonomic nervous system in man
 - (iii) Success in of urinogenital ducts
 - (iv) Mechanism of hearing in Mammal