

*This question paper contains 3 printed pages.*

4420

Your Roll No. ....

**Subsidiary for B.Sc. Honours / II AS**

**ZOOLOGY— Paper III**

**Animal Diversity II (Chordata)**

**(Admissions of 2004 and onwards)**

**Time : 3 hours**

**Maximum Marks : 50**

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

*Attempt five questions in all, including Question  
No. I which is compulsory.*

1. (a) Give the precise location of the following:

- (i) Iter
- (ii) Fovea centralis
- (iii) Uropygial gland
- (iv) Chevron bone.

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(b) Distinguish between the following:

- (i) Physostomous and Physoclistus swim bladder
- (ii) Anamniota and Amniota
- (iii) Stratum corneum and Stratum Malpighi
- (iv) Lacertilia and Ophidia.

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**P. T. O.**

(c) Define the following:

(i) Corpus callosum

(ii) Syrinx

(iii) Cloaca

(iv) Carnassial tooth. 4

(d) Give the scientific names of:

(i) Saw fish

(ii) Tree frog

(iii) Cobra

(iv) Hedgehog. 2

2. Describe the soft integumentary derivatives in vertebrates. 9

3. Compare the aortic arches in fishes, amphibians and mammals. 9

4. Give an account of accessory respiratory organs in fishes. 9

5. Describe the structure of eye in mammals and discuss the physiology of vision. 9

6. Give the names, origin and functions of cranial nerves in mammals. 9

7. Write short notes on any *three* of the following:

(i) Metanephric kidney

(ii) Ruminant stomach

(iii) Lateral line organs

(iv) Bicornuate uterus.

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