

This question paper contains 3 printed pages.]

Your Roll No.

520

Subsidiary for B.Sc. Honours / II A
ZOOLOGY – Paper III
Animal Diversity – II (Chordata)
(Admission of 2004 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. 1 which is compulsory.

Marks are indicated against each question.

1. (a) Define the following :
- (i) Diastema
 - (ii) Portal system
 - (iii) Corpus callosum 3
- (b) Classify the following :
- (i) Uraeotyphlus
 - (ii) Bungarus
 - (iii) Draco
 - (iv) Funambulus 4

- (c) Distinguish between the following :
- (i) Anapsida and Diapsida
 - (ii) Duplex uterus and Simplex uterus
 - (iii) Bicuspid and Tricuspid valve
 - (iv) Rectrices and Remiges 4
- (d) Give the precise location of the following :
- (i) Scroll valve
 - (ii) Cheveron bone
 - (iii) Iter 3
2. Describe the hard derivatives of integument in vertebrates. 9
3. Describe the structural changes in the aortic arches of vertebrates during transformation from aquatic to terrestrial mode of life. 9
4. Describe the structure of mammalian kidney and give an account of succession of kidney in vertebrates. 9
5. Give the names and functions of cranial nerves in mammals. 9

6. Describe the structure of middle and internal ear of a mammal and discuss the physiology of hearing. 9

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

(i) Air sacs

(ii) Ruminant stomach

(iii) Tangoreceptors

(iv) Swim bladder in teleost fishes 9
