

Reg. No. : .....

Name : .....

**IV Semester B.Sc. Degree (CBCSS – Reg./Sup./Imp.)**  
**Examination, May 2018**  
**(2014 Admn. Onwards)**  
**CORE COURSE IN ZOOLOGY**  
**4B 04 ZLG : Chordata – II and Comparative Anatomy**

Time : 3 Hours

Max. Marks : 40

**Instruction : Draw diagrams wherever necessary.**

- I. Essay (Answer **any one**) : (1×8=8)
- 1) Write an essay on aquatic mammals.
  - 2) Comment on the flight adaptation in birds.
- II. Essay (Answer **any one**) : (1×8=8)
- 3) Give an account of digestive system of *Oryctolagus*.
  - 4) Write an essay on bird migration.
- III. Short Essay (Answer **any two**) : (2×4=8)
- 5) Differentiate between Artiodactyl and Perissodactyla with examples.
  - 6) Write a note on the evolution of kidney in vertebrate.
  - 7) Write a note on Archeopteryx as a connecting link of reptiles and birds.
  - 8) Give an account on the different types of vertebrae in animals.
- IV. Paragraph (Answer **any four**) : (4×2=8)
- 9) Comment on Rodentia.
  - 10) Compare the aortic arches in birds and reptiles.
  - 11) Comment on jaws suspensoria.

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- 12) Write a note on the scales in vertebrate.
- 13) Write the characteristic features of Monotremata.
- 14) Write a note on Lagomorpha.

(6×1=6)

V. Answer **any six** (in **one** or **two** sentences) :

- 15) Name two species of elephants live in animal kingdom.
- 16) Classify the following into the respective order :
  - a) Dolphin
  - b) Lemur
- 17) Write a note on Balaenoptera.
- 18) What is pericardium ?
- 19) Write a note on Metatheria.
- 20) What are the different types of feathers of birds ?
- 21) Write any two adaptation of Chiroptera.
- 22) Write a note on antlers.
- 23) What is carnissial teeth ?

VI. Match the following :

- |                 |                    |
|-----------------|--------------------|
| 24) Dodo        | 1) Flightless bird |
| 25) Edentata    | 2) Penguin         |
| 26) Ratitae     | 3) Mauritius       |
| 27) Aptenodytes | 4) Ant Eater       |



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**CORE COURSE IN ZOOLOGY**

**4B 04ZLG : Chordata – II and Comparative Anatomy**

Time : 3 Hours

Max. Marks : 40

**Instruction : Draw diagrams wherever necessary.**

I. Essay : Answer **any one** :

(1×8=8)

- 1) With the help of a neat labelled diagram describe the structure of brain of *Oryctolagus*.
- 2) Write an essay on flight adaptations in birds.

II. Essay : Answer **any one** :

(1×8=8)

- 3) Give an account on dentition in mammals.
- 4) Give a detailed account on the comparison of heart and aortic arches in different vertebrate groups.

III. Short essay : Answer **any two** :

(2×4=8)

- 5) Comment on the adaptations of aquatic mammals.
- 6) Explain the digestive system of pigeon.
- 7) Comment on carnivore mammals seen in India.
- 8) State the affinities of archaeopteryx.

IV. Paragraph : Answer **any four** :

(4×2=8)

- 9) Explain the volant adaptations of bats.
- 10) Draw a neat labelled diagram showing the structure of quill feather.
- 11) Mention the salient features of metatherians.
- 12) Differentiate between Ratitae and Carinatae.
- 13) Explain the advantages of bird migration.
- 14) Comment on monotremata.

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(6×1=6)

V. Answer any six (in one or two sentences) :

- 15) Give an account on order Proboscidea.
- 16) Comment on extinct birds.
- 17) Distinguish between procoelous and amphicoelous vertebra.
- 18) Write short notes on ostrich.
- 19) Write the name of fresh water dolphin seen in India.
- 20) Mention the peculiarities of penquin.
- 21) Distinguish between perissodactyla and aritodactyla.
- 22) What are antlers ?
- 23) Mention the Zoological name of peacock.

VI. Match the following :

- |                      |              |
|----------------------|--------------|
| 24) Cetacea          | Carnivores   |
| 25) Ant eater        | Eutheria     |
| 26) Carnassial teeth | Manis        |
| 27) Apes             | Baleen whale |