



M 8189

Reg. No. : .....

Name : .....

**VI Semester B.Sc. Degree (CCSS – Reg./Supple./Improv.)**

**Examination, May 2015**

**CORE COURSE IN ZOOLOGY**

**6B09 ZLG : Diversity of Life – II – Chordata**

Time: 3 Hours

Total Weight : 25

*Instruction : Illustrate wherever necessary.*

I. Answer **any one** of the following (Weightage 4) :

1) Give an account on accessory respiration in fishes.

2) Describe the digestive system of scoliodon.

(1×4=4)

II. Answer **any one** of the following (Weightage 4) :

3) Give an account on the heart and aortic arches in vertebrates.

4) Give a description on the identification key for poisonous and non-poisonous snakes.

(1×4=4)

III. Answer **any four** of the following (Weight 2 each) :

5) What is retrogressive metamorphosis ? Explain it in the case of ascidia.

6) Comment on different types of feathers in birds.

7) Explain the adaptations of pteropus.

8) Give an account on marsupials.

9) Write notes on the affinities of amphioxus.

10) Describe the importance of sphenodon.

11) Give a brief description of extinct birds.

(4×2=8)

P.T.O.



IV. Answer **any seven** of the following (1 weightage **each**) :

- 12) Differentiate between procoelous and amphicoelous vertebra.
- 13) What are baleen whales ?
- 14) What is endostyle ? What is its function ?
- 15) Mention the diagnostic characters of chordates.
- 16) Comment on ammocoete larvae.
- 17) Explain neoteny.
- 18) Why archaeopteryx is said to be a connecting link between reptiles and birds ?
- 19) Mention any two flightless birds.
- 20) What is a mesaxonic foot ?
- 21) Write any two differences between chondrichthyes and osteichthyes. (7×1=7)

V. Answer the following :

- 22) a) The scientific name of peacock is \_\_\_\_\_  
b) Venom of viper is \_\_\_\_\_  
c) The larva of ambystoma is called \_\_\_\_\_  
d) Jerdon's courser is an \_\_\_\_\_

23) Match the following :

- |                |               |
|----------------|---------------|
| a) Pteropus    | Living fossil |
| b) Rhacophorus | Lung fish     |
| c) Latimeria   | Flying mammal |
| d) Lepidosiren | Flying frog   |
|                | Flying dragon |

(2×1=2)