

M.Sc. (Zoology) (NEP Pattern) Semester-II  
**02MSCZO01 - DSC Paper-I : Structure and Function of Vertebrates**

P. Pages : 1

Time : Three Hours



**GUG/S/25/15424**

Max. Marks : 80

- 
- Notes :
1. All questions are compulsory.
  2. All questions carry equal marks.
  3. Draw well labelled diagrams wherever necessary.

1. Give an account on General Characters and affinities of Dipnoi. 16

**OR**

Write notes on-

- a) Structure and Metamorphosis of Ammocoetus Larva.
- b) General Organization of Cephalochordata

2. Give an account on Derivatives of Integument in Vertebrates. 16

**OR**

Write notes on –

- a) General Body Organization in Chelonia
- b) Appendicular Skeleton in Mammals

3. Write an account on Origin of Birds 16

**OR**

Write notes on –

- a) Adaptations in Cetacea
- b) Brain in Rat.

4. Write an account on Evolution of Man. 16

**OR**

Write notes on –

- a) Heart in Vertebrates.
- b) Autonomous Nervous System in Vertebrates.

5. Attempt the following. 16

- a) Origin of Chordata.
- b) Respiration in Pisces.
- c) Metanephric Kidney.
- d) Lateral line in fishes.

\*\*\*\*\*