

1818

7. Write the short notes on any **three** of the following : 3×5=15

- (a) Membranous labyrinth
- (b) Ruminant stomach
- (c) Visceral arches
- (d) Types of feathers

[This question paper contains 4 printed pages]

Your Roll No. :

Sl. No. of Q. Paper : **1818** **I**

Unique Paper Code : 2232012401

Name of the Paper : DSC- Comparative
Anatomy of Vertebrates

Name of the Course : **B.Sc (H) Zoology**
(NEP-UGCF)

Semester : IV

Time : 2 Hours **Maximum Marks : 60**

Instructions for Candidates :

- (a) Write your Roll No. on the top immediately on receipt of this question paper.
- (b) Answer **four** questions in all.
- (c) Question no. **1** is compulsory.
- (d) Draw well-labelled diagrams wherever required.

1. (a) Define any five of the following terms :
1×5=5

- (i) Ungulates
- (ii) Solenoglyphous
- (iii) Brow spot

- (iv) Archinephros
- (v) Craniostylie jaw suspension
- (vi) Merocrine
- (b) Distinguish between any **three** of the following : 2×3=6
 - (i) Larynx and Syrinx
 - (ii) True horns and Antlers
 - (iii) Rod and Cone cells
 - (iv) Single circulation and double circulation
- (c) State exact location and function of the following : 1×4=4
 - (i) Preen gland
 - (ii) Vomeronasal organ
 - (iii) Gizzard
 - (iv) Meibomian gland
- 2. (a) Explain the anatomical details of heart in different vertebrates and draw suitable diagrams. 10
- (b) Define the circulation plan in different mammals. 5
- 3. (a) Discuss the succession of kidney among vertebrates with suitable diagrams. 8

- (b) Describe various types of uteri found in mammals with suitable diagrams. 7
- 4. (a) Describe the various parts of brain. Compare the brain anatomy of reptiles and mammals. 10
- (b) Name the various cranial nerves in mammals with their functions. 5
- 5. (a) Compare the anatomy of digestive tract among amniotes: Draw required diagrams also. 10
- (b) Classify and give functions of various types of receptors found in vertebrates. 5
- 6. (a) Explain the anatomy of avian lung with the help of diagrams and give the mechanism of respiration in birds also. 8
- (b) Describe the structure of integument in vertebrates. Draw appropriate diagrams also. 7