

2020/TDC/ODD/SEM/
ZOOP-101/312

(2)

TDC Odd Semester Exam., 2020
held in July, 2021

ZOOLOGY

(Pass)

(1st Semester)

Course No. : ZOOP-101

(Taxonomy, Chordates and Physiology)

Full Marks : 35

Pass Marks : 12

Time : 2 hours

*The figures in the margin indicate full marks
for the questions*

Answer **five** questions, selecting **one** from each Unit

UNIT—I

1. (a) Define species. 1
(b) What do you mean by taxonomic hierarchy? 2
(c) Write the general characters of chordata and classify it up to classes with at least two characters and examples of each. 4

10-21/504

(Turn Over)

2. (a) Define systematics and taxonomy. 2
(b) Write two characters of the phylum Arthropoda. 1
(c) Write the general characters of Mollusca. Classify it up to classes with examples. 4

UNIT—II

3. (a) What is wheel organ? 1
(b) Write four peculiar characters of Amphioxus. 2
(c) Write a brief note on the affinities of Amphioxus. 4
4. (a) What is digestion? 1
(b) What is scroll valve? 1
(c) Explain, with suitable diagram, the process of digestion in Scoliodon. 5

UNIT—III

5. (a) Write the scientific name of toad. 1
(b) Define cutaneous respiration. 1
(c) Discuss the circulatory system of toad with a neat diagram. 5

10-21/504

(Continued)

(3)

6. (a) Write the scientific name of Calotes. 1
(b) What are the functions of pulmonary artery in Calotes? 1
(c) Describe, with suitable diagram, the female urinogenital system of Calotes. 5

UNIT—IV

7. (a) What is syrinx? 1
(b) How many air sacs are there in pigeon? 1
(c) Explain, with suitable diagram, the respiratory system of pigeon. 5
8. (a) How many digits are present in the hind limbs of guinea pig? 1
(b) What is uterus masculinus? 1
(c) Describe the digestive system of guinea pig with proper illustration. 5

UNIT—V

9. (a) Define nutrition. 1
(b) What is bile? Mention the role of bile in the process of digestion. 3
(c) Briefly mention the role of pancreas in the process of digestion. 3

(4)

10. Write short notes on the following : $3\frac{1}{2} \times 2 = 7$
(a) Mechanism of respiration in mammal
(b) Structure of nephron with neat diagram
