

U.G. 4th Semester Examination - 2021

ZOOLOGY

[HONOURS]

Course Code : ZOOL-H-CC-T-8

Full Marks : 20

Time : 1 Hour

The figures in the right-hand margin indicate marks.

Candidates are required to give their answers in their own words as far as practicable.

1. Answer any **five** questions of the following:

1×5=5

- a) What is Jaw Suspension?
- b) What are the differences between Gills of Cartilaginous fish and Bony fish?
- c) What is the difference between Autostylic and Amphistylic jaw suspensions?
- d) In which group of animals foramen of ponizza is present? Write the exact position of these foramen in the blood circulatory system.
- e) Define the dental formula of Mammals.
- f) What do you understand by Hyostylic jaw suspension? Where it is found?
- g) What is Sweat Gland? Write down the function of Sweat Gland.

h) What is Pulmocutanecous Arch and mention their function?

2. Answer any **one** question of the following:

5×1=5

- a) What is Cranial Nerve? Write down the origin and function of Olfactory, Optic and Oculomotor nerves. 2+3
- b) Describe the Evolutionary succession of kidney. 5
- c) Write a short note on Importance of air sacs in Pigeon. 5

3. Answer any **one** question of following: 10×1=10

- a) What is Accessory Respiratory organs? Write their adaptive importance. Describe the structure of accessory respiratory organ in different fishes. 2+2+6
- b) Give the brief comparative account of Aortic arches in Reptiles, Birds and Mammals with diagram. 6+4
- c) Write short notes on:
 - i) Respiratory organs in Aves
 - ii) Dentition in Mammals 5+5
