

**U.G. 4th Semester Examination - 2020****ZOOLOGY****[HONOURS]****Course Code : ZOOLOGY(H)-CC-T-8**

Full Marks : 40

Time : 2½ Hours

*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:

2×5=10

- a) What is the difference between Autostylic and Amphistylic jaw suspensions? 2
- b) Define the dental formula of Mammals. 2
- c) What is Sweat Gland? Write down the function of Sweat Gland. 1+1
- d) What do you understand by Hyostylic jaw suspension? Where it is found? 1+1
- e) What are the differences between Gills of Cartilaginous fish and Bony fish? 2
- f) What is Pulmocutaneous Arch and mention their function? 1+1

- g) What is Jaw Suspension? 2
- h) In which group of animals foramen of panizza is present? Write the exact position of these foramen in the blood circulatory system. 1+1

2. Answer any **two** questions of the following:

5×2=10

- a) Describe the Evolutionary succession of kidney. 5
- b) Compare the heart of fish with that of an Amphibian (Frog). 5
- c) What is Cranial Nerve? Write down the origin and function of Olfactory, Optic and Oculomotor nerves. 2+3
- d) Write a short note on Importance of air sacs in Pigeon. 5

3. Answer any **two** questions of following: 10×2=20

- a) Give the brief comparative account of Aortic arches in Reptiles, Birds and Mammals with diagram. 6+4
- b) What do you mean by Integumentary Derivatives? Describe the derivatives of Integument in Mammals with diagram. 2+5+3

c) What is Accessory Respiratory organs? Write their adaptive importance. Describe the structure of accessory respiratory organ in different fishes. 2+2+6

d) Write short notes on:

i) Respiratory organs in Aves

ii) Dentition in Mammals 5+5

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