

U.G. 3rd Semester Examination - 2021

ZOOLOGY

[HONOURS]

Course Code : ZOOL-H-CC-T-05

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** of the following questions:

2×5=10

- a) What is wheel organ?
- b) What is latitudinal migration?
- c) What do you mean by Neoteny?
- d) Define zoogeographical realm.
- e) Distinguish between cutaneous and buccopharyngeal respiration.
- f) State three unique characters of chordates.
- g) What is retmirabile?
- h) Write four general characters of class Aves.

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

5×2=10

- a) Write a short note on Swim bladder in fishes. 5
- b) i) Write four general characters of the order cyclostomata.
- ii) Write down the differences between Ostiechthyes and chondricthyes. 2+3
- c) Define anadromous and catadromous migration of fish with example. 2½+2½
- d) What is migration? What are the factors responsible for bird migration? Define altitudinal migration. 1+3+1

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

10×2=20

- a) Define retrogressive metamorphosis. Describe the process in Ascidia with the help of suitable diagram. State its significance. 2+6+2
- b) What is echolocation? Mention the name of some animals which can utilize this technique. What are the major anatomical changes observed in microchiroptera for echolocation? Comment on the significance of echolocation.

2+2+4+2

[Turn over]

- c) Define parental care. Discuss the parental care in Amphibia. 2+8
- d) State the salient features of the class Mammalia. Write down the schematic chart for the classification of mammals upto infra classes with characteristics and suitable examples. 4+6
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