

**U.G. 3rd Semester Examination - 2020**

**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) Write any three major characteristics of the order Cyclotomata with example.
- b) Mention the Embryological Evidence in Echinoderm origin of chordates.
- c) What do you mean by potamodromous fishes?
- d) What are the different types of bisonar pulses found in microchiroptera?
- e) State the factors controlling the migration in birds.

- f) Exemplify order Chelonia with two important characteristics.
- g) Write down the characteristic feature of foam nest in Amphibia.
- h) Write down three important characters of the Infraclass Metatheria with example.

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

5×2=10

- a) What is retrogressive metamorphosis? State the progressive and retrogressive features of Ascidia during its development. 1+2+2
- b) State how birds adapt to the principles of aerodynamics during flight. 5
- c) Describe the accessory respiratory organs in Clarias and Channa. 2½+2½
- d) Mention the Reptilian and Avian affinities of Prototheria. 3+2

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

10×2=20

- a) Describe the feeding mechanism of Branchiostoma with special reference to significance of endostyle with suitable diagram. 6+2+2

b) Classify the Class Amphibia up to living Orders with characters and suitable example.

3+4+3

c) Give an account of the biting mechanism of a poisonous snake with suitable diagrams. Name the muscles used in poison apparatus?

6+2+2

d) What is Wallace's line? What are the Geographical boundaries of Oriental Realm? Mention the name of five avian and mammalian fauna of Oriental Realm.

2+3+5

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