

**U.G. 1st Semester Examination - 2020**

**ZOOLOGY**

**[HONOURS]**

**Generic Elective Course (GE)**

**Course Code : ZOOL-H-GE-T-01**

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** from the following questions:

2×5=10

- a) Write any three major characteristics of the subclass Asteroidea with example.
- b) What do you mean by 'law of priority'?
- c) Briefly describe the role of canal system in Porifera.
- d) Differentiate between synonymy and homonymy.
- e) Write down three important characters of the order Monotremata with example.
- f) What is lobopodium?

[Turn over]

- g) What are cnidoblasts?
- h) Write down the adaptive features of *Fasciola hepatica*.
- i) What is ctenidial axis?
- j) Differentiate between facultative anaerobe and obligate anaerobe.

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

5×2=10

- a) State the life cycle of *Entamoeba histolytica*.  
5
- b) What do you mean by 'alteration of generation'? Explain the mechanism with diagram. 1+4
- c) Name the excretory organ of Annelida. Explain the process with a suitable diagram. 1+4
- d) What do you mean by retrogressive metamorphosis? State this process in *Ascidia*.  
2+3

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

10×2=20

- a) Explain the biting mechanism of poisonous snake and draw the poison apparatus. Write down the main function of swim bladder in fishes.

5+3+2

b) Classify class Amphibia upto living orders. State their salient features with examples. Why is parental care in amphibian so important?

3+5+2

c) Explain the process of conjugation in *Paramecium*. What are the reasons of bird migration?

8+2

d) Write the scheme of classification in Arthropoda upto subclass with suitable examples. What is eusociality? Why the termites are eusocial?

5+2+3

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