

**B.Sc. Semester-III Examination, 2022-23****ZOOLOGY [Honours]**

Course ID : 32611 Course Code : SH/ZOO/301/C-5

Course Title : Diversity of Chordata

Time : 1 Hour 15 Minutes

Full Marks : 25

*The figures in the right-hand margin indicate marks.**Candidates are required to give their answers in their own words as far as practicable.***UNIT-I**1. Answer any **five** of the following questions:

1×5=5

- Why endostyle of Urochordata is compared with mammalian thyroid gland?
- What is Wallace line?
- Why the fibres of Rhinoceros horn are not true horn?
- What do you mean by Aspect Ratio?
- Differentiate between cloaca and urethra.
- Write the role of melon in echolocation of cetaceans.
- Why Vagus nerve is called Wandering nerve?
- Define Aqueduct of Sylvius.

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

5×2=10

- Write down the retrogressive changes in Ascidian metamorphosis. Why the metamorphosis of *Ascidia* is known as retrogressive metamorphosis? 3+2=5
- Explain Dipleura concept of origin of chordates. Write a note on Plate tectonic movement. 3+2=5
- What are the differences between Physoclistous and Physostomous type of swim bladder? State the origin and function of air sac in *Channa*. What is Mermaid's Purse? 2+2+1=5
- Describe the different types of accessory respiratory organs in fishes with diagram. 3+2=5

**UNIT-III**3. Answer any **one** of the following questions:

10×1=10

- Classify class Reptilia up to living order with characteristic features and examples. Write a note on the parental care of *Ichthyophis*. 8+2=10

b) Write short notes on (any **two**):  $5 \times 2 = 10$

- i) Exoskeleton of birds
  - ii) Poison apparatus in snakes
  - iii) Mega-Chiroptera and Micro-Chiroptera
  - iv) Echolocation in Bat.
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