

**U.G. 2nd Semester Examinations 2022**

**ZOOLOGY (Honours)**

**Paper Code : ZOOL-H DC 3-T**

**(Diversity of Chordates)**

Full Marks : 25

Time : Two Hours

*The figures in the margin indicate full marks.  
Candidates are required to give their answers  
in their own words as far as practicable.*

1. Answer any *eight* questions :

$\frac{1}{2} \times 8 = 4$

- (a) Teeth in shark are modified \_\_\_\_\_ scales. (Fill in the blank)
- (b) Wheel organ is found in \_\_\_\_\_. (Fill in the blank)
- (c) \_\_\_\_\_ is converted into the thyroid gland of vertebrates. (Fill in the blank)
- (d) *Archaeopteryx* is a missing link between reptiles and mammals. (True/False)
- (e) Solenoglyphous fangs are found in vipers. (True/ False)
- (f) Name the type of accessory respiratory organ present in *Channa* sp.
- (g) Adipose fin is a characteristic feature of Catfish. (True/False)
- (h) Cephalochordates are also known as Tunicates. (True/False)
- (i) Aves have \_\_\_\_\_ skull. (Fill in the blank)
- (j) Study of reptiles is called \_\_\_\_\_. (Fill in the blank)
- (k) Marsupium is found in metatherian mammals. (True/False)
- (l) Name one egg laying mammal.

2. Answer any *two* questions :

$2\frac{1}{2} \times 2 = 5$

- (a) Define neoteny and paedogenesis.
- (b) Why *Sphenodon* sp. is called a living fossil? Write the characteristic features of *Sphenodon* sp.  $1 + 1\frac{1}{2} = 2\frac{1}{2}$
- (c) Write the name and geographical distribution of surviving dipnoans.
- (d) Write the salient features of Prototherian mammals with example.

P.T.O.

3. Answer any *four* questions :

4×4=16

- (a) Give an outline classification of class Amphibia up to living orders with two features and two examples for each.
  - (b) Write a note on different types of fish migration with examples.
  - (c) Describe ciliary mode of feeding of *Amphioxus*.
  - (d) Give a brief account of the exoskeleton features found in Aves.
  - (e) Describe the poison apparatus of snakes.
  - (f) What is physostomous and physoclistous type of swim bladder? State the functions of swim bladder. 2+2=4
  - (g) Describe the chordate features of *Ascidia* larva. Why are they called urochordates? 3+1=4
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