2020

ZOOLOGY (Honours)

Paper : ZOOH - DC 3 - T

[Diversity of Chordates]

(CBCS)

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 :   ½×8=4

   (a) All Chordates are Deuterostomes. (True or False)

   (b) ———— scales are found in sharks.

   (c) Which type of skull is found in most living reptiles ?

   (d) Which type of metamorphosis is found in *Ascidia* ?

   (e) Give one example of Agnatha.

   (f) Write the name of one extra-embryonic membrane.

   (g) Ductus pneumaticus is present in which type of swim bladder in fish ?

   (h) Preen gland occurs in ———— .

   (i) Connecting link between the reptile and the bird is ———— .

   (j) In echolocation of mammals, ultrasonic frequency ranges between ———— .

   (k) Give one example of egg laying mammal.

   (l) Write the main function of Pectoralis minor muscle in bird.

2. Answer any *two* questions :   2½×2=5

   (a) What is the evolutionary significance of Ammocoete larva ?

   (b) Distinguish between metamorphosis and paedomorphosis.

   (c) What is stomochord ? Where is it found ?   1½+1=2½

   (d) What do you mean by Hovering flight of bird ? Give example.

                                                                   1½+1=2½

3. Answer any *four* questions :   4×4=16

   (a) Differentiate between Lamprey and Hagfish.

   (b) Briefly describe with diagram, the biting mechanism of poisonous snake.

   (c) Write the aerodynamic principle of flight in bird with special reference to Upward lift.   2½+1½=4

   (d) Write the general characteristics of Prototheria. Briefly discuss its affinities with birds and reptiles.   2+2=4

   (e) Write the functions and significance of accessory respiratory organs in fish.   2+2=4

   (f) Classify the class Amphibia upto living orders with characteristics and examples.

   (g) Draw a labelled diagram of a typical feather. What are the uses of feathers in birds ?   2+2=4

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