

B.Sc. Semester III (Honours) Examination, 2018-19

ZOOLOGY

Course ID : 32611

Course Code : SHZOO-301C-5(T)

Course Title : Diversity of Chordata

Time: 1 Hour 15 Minutes

Full Marks: 25

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 five* of the following: 1×5=5
 - (a) Justify the name 'Cyclostomata'.
 - (b) What is Opisthoglyphous fang?
 - (c) What do you mean by Aspect Ratio?
 - (d) Distinguish between horn and antler.
 - (e) What is rete mirabilis?
 - (f) What is Melon?
 - (g) What is Wallace line? Give one example of endemic urodel amphibian. ½+½=1
 - (h) What do you mean by carnassial teeth?

 2. Answer *any two* of the following: 5×2=10
 - (a) Write on the distribution of mammals in Oriental realm. Write a note on Plate tectonic movement. 3+2=5
 - (b) Write four important characteristic features of Aves. Distinguish between Archaeornithes and Neornithes. 2+3=5
 - (c) What is echolocation? Comment on morphological adaptations of Microchiroptera for high frequency sound production and perception of echo. 1+2+2=5
 - (d) Differentiate between anadromous and catadromous migration of fishes. Write a note on nesting behaviour of fishes. 2+3=5

 3. Answer *any one* from the following: 10×1=10
 - (a) Name different components of poison apparatus with suitable diagram. Briefly describe the biting mechanism of a poisonous snake. Write down the composition of neurotoxic venom. 3+5+2=10
 - (b) Give four important chordate features of *Branchiostoma*. Briefly describe the feeding mechanism of *Branchiostoma* with a suitable diagram. 2+6+2=10
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