

Kishore Bharati Bhagini Nivedita College (Co-Ed.)

(Affiliated to the University of Calcutta)

2020

ZOOLOGY – HONOURS

(1+1+1 2009 Regulations)

First Paper (Unit-I)

Full Marks : 50

Time : 2 Hrs.

The figures in the margin indicates full marks.

Candidates are required to give their answers in their own words as far as practicable.

Send PDF of the Answer Script to **kbbnczoology@gmail.com**

Answer **question no. 1** and **any three** questions from the rest.

1. Answer any **any four** questions from the following: 5×4
 - a) Differentiate between horns and antlers.
 - b) Write the distinguishing characters of Artiodactyla.
 - c) Draw a labelled diagram of ultrastructure of flagellum.
 - d) Differentiate between venomous and non-venomous snakes.
 - e) What is paedomorphosis? Cite an example.
 - f) Write a short note on nervous system of *Pila* sp.
 - g) Name the different types of coral reefs and their distribution in India.
 - h) What is metamerism? State its evolutionary significance.

2. Discuss the mechanism of respiration in prawn with suitable flow chart. 7+3

3. Briefly describe the water vascular system of *Asterias* sp. with suitable diagram. 6+4

4. Briefly describe the structure of a flight feather with diagram. 6+4

5. Describe the ruminant stomach of a cow with suitable diagram. 6+4

6. What is aortic arches? Discuss the modification of aortic arches in different vertebrate classes. 2+8

7. Briefly describe the biting mechanism of a venomous snake with suitable diagram. 6+4