

Date of Exam: 07.12.2020

Kishore Bharati Bhagini Nivedita College (Co-Ed.)

(Affiliated to the University of Calcutta)

2020

ZOOLOGY – GENERAL

Paper: CC-2 (Comparative Anatomy & Developmental Biology)

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. Write short notes on **any four** from the following: 5×4
 - a) Structure of sperm
 - b) Nephron
 - c) Ruminant stomach
 - d) Structure of typical mammalian tooth
 - e) Swim bladder
 - f) Air sacs
 - g) Membranes of mature egg
 - h) Gills

2. Describe the process of oogenesis in mammals. 10
3. Describe different types of placenta. Describe the role of placenta. 5+5
4. Describe any single circuit heart. Mention the course of blood circulation through it. 8+2
5. Describe the structure of a kidney of a mammal. 10
6. What is fertilization? Describe the process of fertilization in a sea urchin. 2+8
7. Describe the mature mammalian ovum. Compare spermatogenesis with oogenesis. 6+4
