

Date of Exam: 05.12.2020

Kishore Bharati Bhagini Nivedita College (Co-Ed.)*(Affiliated to the University of Calcutta)***2020****ZOOLOGY – GENERAL****(1+1+1 2009 Regulations)****Second Paper****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) Write short note on cycloid and ctenoid scales.
 - b) State the differences between septal and opercular gills.
 - c) What do you mean by Biosphere reserve? Cite an example from West Bengal.
 - d) What is royal jelly? State the significance of royal jelly in honey bees' life.
 - e) Differentiate between Osmoconformers and Osmoregulators.
 - f) What is biodiversity hot-spots? Name one biodiversity hot-spot found in India.
 - g) Write short note on Apoenzyme and Coenzyme.
 - h) Define Ecotone and Edge Effect.

2. State differences between Osteichthyes and Chondrichthyes with examples. Classify Class Reptilia upto living sub-classes with examples. 4+6

3. Briefly describe the structure of air sacs of *Columba* sp. with a suitable diagram. 6+4

4. Define population. Describe the S-shaped growth curve with diagram. How does it differ from the J-shaped growth form? 2+5+3

5. Discuss the causes of wildlife depletion in India. Write a note on *Ex-situ* conservation. Differentiate between National Park and Wildlife Sanctuary. 4+2+4

6. What do you mean by Green House effect? Discuss four steps that can be undertaken to reduce global warming. What is Bee Dance? 2+5+3
7. Discuss about the osmoregulation in Anadromous fishes. State the role of pH and temperature in enzyme action. 5+5
