



WEST BENGAL STATE UNIVERSITY
B.Sc. Honours 4th Semester Examination, 2023

ZOOACOR08T-ZOOLOGY (CC8)

Time Allotted: 2 Hours

Full Marks: 40

*The figures in the margin indicate full marks.
Candidates should answer in their own words and adhere to the word limit as practicable.*

1. Answer any **eight** questions from the following: 2×8 = 16
 - (a) Define cranial nerve. How many cranial nerves are found in human?
 - (b) Differentiate between mesonephric and metanephric kidney.
 - (c) Mention the different Valves in mammalian heart and their positions.
 - (d) What is parabronchi?
 - (e) Where do we find bunodont teeth?
 - (f) What is pyloric sphincter?
 - (g) Distinguish between sulci and gyri.
 - (h) Write down dental formula of elephant.
 - (i) What is aqueduct of Sylvius?
 - (j) What is Wolffian duct?
 - (k) How many aortic arches are found in cyclostomes and reptiles?
 - (l) How many types of uteri are found in vertebrates? Name them.

2. Answer any **three** questions from the following: 3×3 = 9
 - (a) Write down the role of afferent and efferent branchial artery in fish. 3
 - (b) Define foramen ovale, foramen magnum and foramen of Panizza. 1+1+1
 - (c) Enumerate briefly the jaw suspension of mammals. 3
 - (d) Define receptor. Add a note on chemoreceptor in Vertebrates. 1+2
 - (e) Describe the structure of Venous heart with simple diagram. 2+1

3. Answer any **three** questions from the following: 5×3 = 15
 - (a) Mention the components of respiratory system in birds. Write down the function of air sacs in birds. 2+3
 - (b) Describe the auditory receptor in human with diagram. 3+2
 - (c) Give a comparative account of aortic arch in mammals and birds. 5
 - (d) Explain any one integumentary derivative of birds with diagram. What is Pterylae? 3+1+1
 - (e) Write short notes on: (any **two**) 2½ × 2 = 5
 - (i) Gizzard in bird, (ii) Nail and Hoofs, (iii) C.S.F.

—x—