WEST BENGAL STATE UNIVERSITY

B.Sc. Honours 4th Semester Examination, 2020

ZOOACOR09T-ZOOLOGY (CC9)

Birati Mazumdar Memorial College for Women
LIBRARY
Dakshineswar, Kolkata-35

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) What are the different types of movements of small intestine?

(b) Distinguish between cortical and juxtaglomerular nephrons.

(c) Write the function of Gall bladder.

(d) What is Carboxyhemoglobin?

(e) Name four factors which influence Haemoglobin-Oxygen Equilibrium.

(f) What is Cardiac cycle?

(g) What is haemopoiesis?

(h) What is afferent branchial system?

(i) What is Thermoregulation?

(j) Name two hormones and their respective roles related to urine formation.

(k) Name a proteolytic and a lipolytic pancreatic enzyme.

(l) Write about the regulation of acid – base balance by the lungs.

(m) What is chylomicron?

(n) How does cardiac muscle differ from other muscles?

(o) What is piloerection?

2. Answer any ***three*** questions from the following: 3×3 = 9

(a) Explain Bohr effect with proper illustration of oxygen dissociation curve. 3

(b) Where does digestion of carbohydrate begin? Name the enzyme responsible for it and the fate of carbohydrates after the process. What is chyme? 1+0.5 +0.5+1

(c) What is cardiac output? Comment on coronary circulation. 1+2

(d) What is haematopoiesis? Mention its site in an adult human. State the distinguishing features between Red blood cells and White blood cells. 0.5+0.5+2

(e) Write a short note on juxta – glomerular apparatus.

(f) What are endotherms? How can they increase heat production in their body? 1+2

3. Answer any ***three*** questions from the following: 5×3 = 15

(a) Discuss the composition, function and regulation of salivary secretion. 1.5+1.5+2

(b) Describe the phases of cardiac cycle with diagram. 5

(c) Explain the process of blood clotting and mention the role of Vitamin K in this process. 4+1

(d) Describe the composition and functions of Bile. What is bilirubin? 4+1

(e) Describe the mechanism of Osmoregulation in fresh water teleost and in Shark. 3+2

(f) Describe the different parts of a nephron with a diagram. 3+2

N.B. : *Students have to complete submission of their Answer Scripts through E-mail / Whatsapp to their own respective colleges on the same day / date of examination within 1 hour after end of exam. University / College authorities will not be held responsible for wrong submission (at in proper address). Students are strongly advised not to submit multiple copies of the same answer script.*

——×——