

CARMEL COLLEGE OF ARTS, SCIENCE & COMMERCE FOR WOMEN
B.Sc. CBCS SEMESTER END EXAMINATION, JULY 2021

Semester IV Course code & Name: ZOC 104 Animal Physiology and
Biochemistry

Total Marks: 40 Date: 12/07/2021 Duration: 2 hrs Total No. of pages: 02

Instructions: 1. All questions are compulsory.

2. Figures to the right indicate marks allotted to the question.

3. Illustrate your answers wherever necessary.

4. Upload the answer books within the stipulated time

Q.1. Answer ANY FIVE of the following: (5 x 2 = 10)

1. Differentiate between Pulmonary and Alveolar ventilation.
2. Illustrate the kidney in a sagittal section.
3. Comment on the cardiac conduction system.
4. Compare skeletal muscle and cardiac muscle.
5. What is a buffer?
6. Give the chemical structure of Cholesterol.
7. What are essential amino acids? Name them.
8. In enzyme inhibition mechanism, how does a non-competitive inhibitor work?

Q.2. Answer ANY SIX of the following: (6 x 5 = 30)

1. Classify Salivary glands. Explain the functions of Saliva.
2. Explain the transport of carbon dioxide in the blood,
3. Describe the morphology and functions of leucocytes.
4. Discuss the ultra-structure of skeletal muscle fibre.
5. Differentiate between Heteropolysaccharides and Homopolysaccharides using suitable examples.
6. Provide a detailed classification on lipids, with a note Phospholipids.

7. Write a brief note on denaturation of Proteins.
8. Interpret the graph below. Which enzyme has a higher affinity for the substrate?

