## 2023

# B.A./B.Sc.

### **Third Semester**

CORE - 7

# ZOOLOGY

Course Code: ZOC 3.31 (Fundamentals of Biochemistry)

Total Mark: 70 Pass Mark: 28

Time: 3 hours

Answer five questions, taking one from each unit.

#### UNIT\_I

1. Give an account on the structure and classification of disaccharides.

7+7=14

2. Describe the structure and properties of glycoconjugates.

7+7=14

### **UNIT-II**

- 3. Enumerate the classification of lipids and mention their biological importance. 7+7=14
- 4. Give an account on tri-acylglycerols and steroids. 7+7=14

## UNIT-III

- 5. Describe the various properties of amino acids. Add a note on the non- essential amino acids. 10+4=14
- 6. Explain the various types of bonds stabilizing protein structure.

## **UNIT-IV**

- 7. Discuss the various types of DNA giving appropriate diagram and explain hyperchromaticity of DNA. 7+7=14
- 8. Explain C<sub>0</sub>t curves. Discuss on the significance of C<sub>0</sub>t curve. 6+8=14

# **UNIT-V**

- 9. Classify enzymes with examples. Add a note on the specificity of enzymes. 9+5=14
- 10. Describe the factors inhibiting enzyme action and how enzyme actions are regulated. 9+5=14

-2-