# 2022 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 monosaccharides.

7+7=14

2. Describe the biological importance of disaccharides and polysaccharides.

7+7=14

#### UNIT-II

- 3. Describe the salient features of fatty acids. Differentiate between saturated and unsaturated fatty acids. 7+7=14
- 4. Give an account on phospholipids and glycolipids. 7+7=14

#### UNIT-III

5. What is protein? Describe the levels of organization in protein molecule.

2+12=14

6. Explain how amino acids are classified based on its chemical nature. 14

### **UNIT-IV**

7. Discuss on the agents that affects the denaturation and renaturation of DNA. 7+7=14

8. Explain the structure of purines with the help of neat diagram. Describe the Chargaff's rule of base pairing. 6+8=14

## UNIT-V

9. Describe enzyme. Describe the theories of enzyme action. 2+12=14

10. Write an account on allosteric enzymes and their kinetics.