

FIRST SEMESTER M.Sc. DEGREE EXAMINATION, NOVEMBER 2022
(Regular/Improvement/Supplementary)

ZOOLOGY
FZOL1C01-BIOCHEMISTRY

Time: 3 Hours

Maximum Weightage: 30

Part A: Answer any *four* questions. Each carries *two* weightage.

Write short notes on:

1. Peptide bond.
2. V max value.
3. Ketone bodies.
4. Iodine number.
5. Suicide inhibition.
6. Osazone.
7. Deamination.

(4 × 2 = 8 weightage)

Part B: Answer any *four* questions. Each carries *three* weightage

8. Describe the role of ATP in biological system.
9. Explain the beta pleated structure of protein with example.
10. Give an account on the significance of Uronic acid pathway.
11. Briefly discuss beta oxidation of fatty acids.
12. Elaborate on the biological functions of prostaglandins.
13. Differentiate between reducing and nonreducing sugars with examples.
14. Discuss the structure and biological role of hyaluronic acid.

(4 × 3 = 12 weightage)

Part C: Answer any *two* questions. Each carries *five* weightage

15. Describe the fate of pyruvic acid in glycolysis under aerobic and anaerobic conditions.
16. Explain in detail the Watson-Crick model of DNA. Give an account on different types of DNA.
17. Describe in detail the electron carrier complexes in electron transport chain.
18. Discuss the mechanism of enzyme action. Add notes on different factors influencing enzyme action.

(2 × 5 = 10 weightage)