

D1AZL2101

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Name.....

Reg.No.....

**FIRST SEMESTER M.Sc. DEGREE EXAMINATION, NOVEMBER 2021**  
(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. Rancidity
2. Z-DNA
3. Isoelectric point of amino acids
4. Ribozymes
5. Enthalpy
6. Redox potential
7. Transamination

**(4×2 = 8 weightage)**

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

8. Explain the pyruvate dehydrogenase complex.
9. Briefly discuss gluconeogenesis.
10. Differentiate between homo polysaccharides and hetero polysaccharides with examples.
11. Briefly describe the structural and biological role of cellobiose.
12. What is Km value? Explain the effect of substrate concentration on enzyme activity.
13. Briefly describe the osazone formation.
14. Describe the structure of t-RNA.

**(4×3 = 12 weightage)**

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

15. Describe pentose phosphate pathway and its significance.
16. Define enzyme inhibition. Explain different types of enzyme inhibitions with suitable examples.
17. Elucidate the structural organization of proteins.
18. Explain biosynthesis of cholesterol.

**(2×5 = 10 weightage)**