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SUBJECT CODE NO: - FNP-6034
FACULTY OF SCIENCE AND TECHNOLOGY
MSC. F.Y. (SEM-I) (NEP Pattern-2023-2024) Zoology
Examination November / December 2025
Biochemistry-SAC165011T

[Time: 1:30 Hours]

[Max. Marks: 45]

Please check whether you have got the right question paper.

N. B

- 1) Question number 1 is compulsory.
- 2) Draw a neat & well labelled diagram Wherever necessary.

Q1 Multiple choice questions (2 mark each)

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- 1) Which of the following substance will exhibit the strongest hydrogen bonding?
 a) H_2S b) H_2O c) HCl d) HI
2. The most common monomer of carbohydrates is the molecule of _____
 a) Glucose b) Ribose c) Raffinose d) Dihydroxyacetone.
3. Enzyme & a co-enzyme together form an enzymatically active Conjugated Protein called as _____
 a) co-enzyme b) co-factors c) holozyme d) acetyl-CoA.
4. Which of the following is a Common Symptom of glycogen storage disease (GSD)?
 a) Muscle cramps during exercise. b) Hyperuricemia
 b) Dilated cardiomyopathy. d) hypoglycemia.
5. The formation of a new α -amino acid takes place in the Process of _____
 a) Deamination b) Transamination
 c) Trans-deamination d) ketogenesis.

Q2 Attempt any five of the following

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1. Describe buffer and add a note on its biological importance
2. Give structure & Solvent Properties of water.
3. Describe the Primary structure of Protein.
4. Give the biological roles of nucleotides & nucleic acids.
5. Describe glycogenolysis & its regulation.
6. Write a note on Beta oxidation.

