

**RAN-2003030105060043****T. Y. B.Sc. External ATKT (Sem. -V) Examination October - 2025****Nutritional Biochemistry - 1****Time: 2 Hours]****[Total Marks: 50****સૂચના : / Instructions**

- (1) ઉપરોક્ત દર્શાવેલ વિગતો ઉત્તરવહી પર અવશ્ય લખવી.
Fill up strictly the above details on your answer book.
- (2) બધા પ્રશ્નો ફરજિયાત છે.
All questions are compulsory.

Seat No.:

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Student's Signature

Q. 1. Explain the following terms (Any 4 out of 6)**(08)**

1. Hormone
2. Rancidity
3. Iodine number
4. Antioxidant
5. Carbohydrate
6. Starch

Q. 2. Short Notes (Any 2 out of 3)**(14)**

1. Mucopolysaccharides
2. Properties of triglycerides
3. Reversible inhibition of enzymes

Q. 3. Explain in detail (Any 2 out of 3)**(14)**

1. Write about regulation of hormones.
2. Write about denaturation of protein.
3. Define heteropolysaccharides and write its types with proper examples in detail.

Q. 4. Answer the following**(14)**

- A) Write about properties of proteins. (6 Marks)

Or

- A) Write about factors affecting enzyme activity. (6 Marks)

B) Answer the following (Any 2 out of 3)

1. Write classification and functions of carbohydrates. (4 marks)
2. Write definition of lipid and classify it. (4 marks)
3. Write precipitation of proteins by salting out, alkaloid reagents & organic solvents. (4 marks)