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(Printed Pages 3)

(210723)

Roll No. ....

**Paper Code-128701**

**B.Sc. 1<sup>st</sup> Year (Annual) (Regular)**

**Main Examination, 2023**

**Bio-Technology**

**(Bio-Chemistry)**

101

*Time : Three Hours ]*

*[Maximum Marks : 50*

**Note :** Attempt any **five** questions. **All** questions carry equal marks.

1. What are Polysaccharides? Describe the Acid Mucopolysaccharides in detail. 10
2. Define Nucleic Acid. Describe the Double standard Structure of DNA. 10
3. What are Proteins? Describe the Primary Structure of Proteins. 10

P.T.O.

4. Write notes on : 2×5

(a) Difference between Saturated and Unsaturated Fatty Acid.

(b)  $\beta$ -oxidation.

✓ 5. What are vitamins? Describe the deficiency and disease caused by the fat soluble vitamins. 10

6. Write an account of Glyoxylate Cycle? 10

✓ 7. Write notes on: 2×5

(a) Essential and non-essential amino acids

(b) Super coil forms of DNA

8. Define Nucleic Acid Metabolism? Describe the de novo synthesis of nucleotides. 10

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✓ 9. Write notes on : 2×5

(a) Conjugate Protein

(b) Isoelectric point of Amino Acid

10. Define Glycolysis? Describe various steps  
involves in glycolysis. 10

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