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(20524)

B.Sc. (Micro.)-I Year

(Printed Pages-3)

Roll No. .

3488

B.Sc. (Micro) Examination, May-2024

BIOCHEMISTRY

(B-105)

B.Sc. (Micro.)

Time : Three Hours]

[Maximum Marks : 50

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

1. Write short notes : $2 \times 5 = 10$
- (i) Saturated & unsaturated fatty acids
 - (ii) Buffering system in biological systems.
 - (iii) Gluconeogenesis.
 - (iv) Nitrogen-fixing bacteria.
 - (v) UV-visible spectroscopy.

P.T.O.

- 2. What are different types of carbohydrates and what are their functions in living organisms? 10
- 3. What is the structure of DNA, and how does it facilitate genetic information storage and replication? 10
- 4. What are the building blocks of proteins, and how is their structure related to their function? 10
- 5. How do enzymes function as catalysts in biochemical reaction, and how is their structure related to their function? 10
- 6. How do competitive and non-competitive inhibitors affect enzyme activity? 10
- 7. What are the key steps and products of glycolysis, and how is ATP generated in this pathway? 10

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8. What is meant by a polar molecule, and how does water exhibit polarity? 10