

Roll No.

[2]

S-277

**B. Sc. (Second Semester)
EXAMINATION, 2019**

MICROBIOLOGY

(Biochemistry)

(SOLS/M.B./C-002)

Time : Two Hours] [Maximum Marks : 70

Note : (i) Attempt any five questions from Section A and any three questions from Section B.

(ii) Answer each question of Section A within 50 words.

(iii) Limit your answers within the given answer book. Additional answer book (B-Answer book) should not be provided or used.

Section—A

Note : Attempt any five questions. Each question carries 5 marks.

1. Comment on any one of the following :

- (i) Equilibrium
- (ii) Entropy

2. Comment on Mutarotation.

3. Define Iso-electric point of an Amino Acid.

(A-40) P. T. O.

- 4. Write a short note on Lipid micelles.
- 5. Define the Michaelis-Menten constant for an enzyme.
- 6. Define stereoisomerism. Discuss Haworth projection formula for representing stereoisomer.
- 7. Draw the structure of Proline.

Section—B

Note : Attempt any three questions. Each question carries 15 marks.

- 1. Write the general structure and function of Phosphoglycerides.
- 2. Define and classify the structural lipids with suitable examples.
- 3. Write the Double reciprocal equation for enzyme activity and discuss its significance.
- 4. Discuss the structure and function of Chitin.
- 5. Discuss structure and function of a storage polysaccharide.
- 6. Discuss chair and boat conformation of Glucose and their significance.

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