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Subject: Blochemistry

Paper - I: Chemistry of Biomolecules

Time: 3 Hours

Max. Marks: 80

 $PART - A (5 \times 4 = 20 Marks)$ (Short Answer Type)

Note: Answer any FIVE of the following questions.

- Give an account on types of buffers
- Write a note on stereochemistry of amino acids.
- 3 What is mutarotation?
- Discuss about structural polysaccharides.
- 5 What are prostaglandins?
- Give an account on properties of lipids.
- 7 Write a note on general properties of proteins.
- Give an account of titration curve of glycine

PART - B (4 x 15 = 60 Marks) (Essay Answer Type) Note: Attempt ALL the questions.

(a) Write a note on scope of biochemistry.

OR

- (b) Explain the significance of Henderson-Hasselbalch equation with suitable examples.
- 10 (a) Discuss about the reactions of monosaccharides with suitable examples.

- (b) Give an account on:
 - (i) amino sugars
 - (ii) bacterial cell wall polysaccharides
- 11 (a) Write a note on structure and organization of biomembranes.

- (b) Discuss about the classification of lipids.
- 12 (a) With suitable examples describe the structural organization of proteins

OR

(b) Give an account on:

- classification of amino acids
- naturally occurring peptides

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