

APRIL 1998

(SV 872)

B.Sc. (MEDICAL LABORATORY TECHNOLOGY)
DEGREE EXAMINATION

First Year

PAPER-II BASIC CHEMISTRY

Time: Three hours

Max: 100 Marks

Answer All Questions

1. Discuss the classification of Carbohydrates with examples. Give one colour reaction for carbohydrates. How is blood glucose estimated by o-Toluidene method. Discuss the biological importance of carbohydrates. (25)
2. a) Define pH of a solution (2)
- b) What is ionic product of water? Give its importance. (3)
- c) What is (i) buffer solution (ii) buffer action. Mention any two buffers present in our body. Explain the buffer mechanism with examples. (10)
- d) How is pH of a solution determined by titration using indicators. Mention the importance of pH of blood. (10)

3. Write short notes on: (5x10=50)

- a) Biological importance of phospholipids.
- b) Aliphatic compounds of physiological importance.
- c) Essential amino acids
- d) Mitochondria
- e) Estimation of cholesterol.

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