

AUGUST 2005

[KN 872]

Sub. Code : 5002

SECTION B — (10 × 5 = 50 marks)

**B.Sc. (Medical Laboratory Technology) DEGREE
EXAMINATION.**

First Year

Paper II — BASIC CHEMISTRY

Time : Three hours Maximum : 100 marks

**Sec. A & B : Two hours and Sec. A & B : 80 marks
forty minutes**

Sec. C : Twenty minutes Sec. C : 20 marks

Answer Sections A and B in the SAME answer book.

Answer Section C in the answer sheet provided.

Answer ALL questions.

SECTION A — (2 × 15 = 30 marks)

1. What are proteins? How are they classified? Give examples.
2. Explain the structure of DNA.

3. Write short notes on :

- (a) Classification of carbohydrates
- (b) Buffer systems in blood
- (c) Insulin
- (d) Denaturation of proteins
- (e) Importance of essential fatty acids
- (f) Factors influencing enzyme action
- (g) Biological significance of fats
- (h) Zwitter ions and isoelectric pH
- (i) Biotin
- (j) Hydrolytic products of proteins