

AUGUST 2004

[KL 872]

Sub. Code : 5002

**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
forty minutes**

Sec. A & B : 80 marks

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.**

SECTION A — (2 × 15 = 30 marks)

1. What are fats and oils? What is their importance to the living system? Describe any two colour reactions of cholesterol. (5 + 5 + 5)
2. What are polypeptides? Discuss any one method of their synthesis. Describe the secondary structure of proteins. (15)
3. Write short notes on :
 - (a) Mitochondria.
 - (b) Mutarotation of glucose.
 - (c) Biological importance of steroids.

- (d) Specificity of enzymes.
- (e) Enzyme inhibition.
- (f) Biological importance of cholesterol.
- (g) Deoxy Ribonucleic acids.
- (h) Classification of amino acids.
- (i) Buffer solutions.
- (j) Serum proteins.