

AUGUST 2006

[KP 227]

Sub. Code : 2952

M.Sc. (Non-Clinical) DEGREE EXAMINATION.

Preliminary

(Common to all branches)

Paper II — PHYSIOLOGY AND BIOCHEMISTRY

Time : Three hours Maximum : 100 marks

**Descriptive : Two hours and Descriptive : 80 marks
forty minutes**

Objective : Twenty minutes Objective : 20 marks

**Answer Sections A and B in the SEPARATE
Answer books.**

Answer Section C in the Answer Sheet provided.

Answer ALL questions.

SECTION A — (40 marks)

PHYSIOLOGY

- 1. Define arterial Blood pressure. Mention the factors regulating BP. (15)**
- 2. Give an account of formation of urine. (10)**
- 3. Write short notes on : (3 x 5 = 15)**
 - (a) ECG**
 - (b) Vital capacity**
 - (c) Functions of Gall Bladder.**

SECTION B — (40 marks)

BIOCHEMISTRY

- 4. Justify the statement – ‘Citric Acid Cycle is the final common metabolic pathway for carbohydrate, protein and lipids’ add a note on its regulation. (15)**
- 5. Describe the Metabolism of Phospholipids. (10)**
- 6. Write short notes on : (3 x 5 = 15)**
 - (a) Renal function test**
 - (b) Bile Salts**
 - (c) Structure of Hemoglobin.**