

MARCH 2007

[KQ 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 forty minutes Descriptive : 80 marks

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. What is the normal blood calcium level and how it is regulated? (15)
2. Describe the origin, course, termination of the major descending motor pathway and its manifestations produced by lesion at various levels. (10)

3. Write short notes on : (3 × 5 = 15)

- (a) Law of intestine
- (b) Oral contraceptives
- (c) Attenuation reflex.

SECTION B — (40 marks)

(BIOCHEMISTRY)

4. Digestion and absorption of carbohydrates. Write in detail about gluconeogenesis. (15)
5. Write in detail about the salvage pathway of purines. (10)
6. Write short notes on : (3 × 5 = 15)
 - (a) Plasma proteins
 - (b) Fate of acetyl CoA
 - (c) Catabolism of Haem.