

Sub. Code : 4007

FIRST M.B.B.S. DEGREE EXAMINATION.

(New Regulations)

Part I

Paper II — PHYSIOLOGY — I

Time : Three hours Maximum : 100 marks
Two and a half hours Sec. A & B : 70 marks
for Sec. A & Sec. B Section C : 30 marks

Separate answer books must be used
for Sections A and B.

Section C must be answered separately on the answer
sheet provided as per the instructions on the first page.

Answer ALL questions.

SECTION A

1. Describe the structure of the Glomerular filter bed and the factors affecting GFR explain why Inulin clearance indicates GFR. (15)
2. Write briefly on: (4 × 5 = 20)
 - (a) Role of vasa recta in concentration of urine.
 - (b) Mechanism of glycosuria in diabetes mellitus.
 - (c) Mechanism of action of hormones on target cells.
 - (d) Cushing's syndrome.

SECTION B

3. Describe the hormonal and endometrial changes occurring during a normal menstrual cycle. (15)
4. Write briefly on: (4 × 5 = 20)
 - (a) Physiological role of glucagon.
 - (b) Contraceptive methods for the male.
 - (c) Neuroendocrine reflex.
 - (d) Fetoplacental unit.