

[AK 507]

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
for Sec. A and B

Sections A and B : 70 marks

1. Answer ALL questions.
2. Sections A and B should be answered in separate answer books.
3. Section C must be answered separately on the answer sheet provided, as per the instructions given in the first page.

SECTION A — (2 × 15 = 30 marks)

1. Describe the mechanism of HCl secretion and its regulation during the different phases of gastric secretion.
2. Describe the mechanism of water absorption in the different segments of Renal tubule.

[AK 507]

SECTION B — (8 × 5 = 40 marks)

Write short notes on :

- (a) Membrane transport proteins.
- (b) Anticoagulants.
- (c) Acidification of urine.
- (d) Fetoplacental unit.
- (e) Mechanism of muscle contraction (sliding filament theory).
- (f) Erythropoiesis.
- (g) Hormonal control of plasma calcium.
- (h) Genetic basis of sex determination.