

April 1997

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[MP 512]

Sub. Code : 4012

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

(Revised Regulations)

Part I

Paper II — PHYSIOLOGY —

Time : Three hours

Maximum : 100 marks

Two and a half hours  
for Section A and B

Section A & B : 70 marks

Answer ALL questions.

Sections A and B should be answered in separate answer books.

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

SECTION A — (35 marks)

1. Mention the different types of smooth muscles. Discuss their difference in structure, function and energetics when compared to that of a skeletal muscle. (15)

2. Write notes on : (4 × 5 = 20)

- (a) Facilitated diffusion.
- (b) Functions of Neutrophils.
- (c) Micturition reflex.
- (d) Carbohydrate digestion.

SECTION B — (35 marks)

3. Discuss the synthesis and functions of thyroxine. What would be the abnormalities seen during the hyper and hyposecretion of the hormone? (15)

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Write notes on :

(4 × 5 = 20)

(a) Define FRC (Functional Residual Capacity), RV (Residual Volume) and Minimal Volume. What is their clinical significance.

(b) IUCD.

(c) Concept of renal clearance.

(d) Feed back mechanisms in the regulation of hormones.