

AK 508]

APRIL - 1996

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

(New Regulations)

Part I

**Paper III - BIOCHEMISTRY**

Time : Three hours

Maximum : 90 marks

Two and a half hours

Section A and B : 70 marks

for section A and B

Answer ALL the questions

Sections A and B should be answered in separate answer papers

Section C must be answered separately on the answer sheet

placed inside the question paper booklet as per

the instructions given on the first page

**SECTION A - (2X15=30 marks)**

1. Outline the synthesis of Urea. Mention the metabolic disease of urea cycle.
2. Name the active form of Vitamin D. How is it synthesized in the body? Add a note on its functions, requirements and deficiency manifestations.

**SECTION B- (8X5=40)**

3. Write short note on:

- (a) What is competitive inhibition give examples
- (b) Phospholipids
- (c) Carnitine
- (d) Enterohepatic circulation of bile acids
- (e) Melatonin
- (f) Role of lungs in acid base balance
- (g) Oxidative Phosphorylation
- (h) Plasma proteins