

F 2349

Reg. No.....

Name.....



FIRST PROFESSIONAL M.B.B.S. DEGREE EXAMINATION, OCTOBER 2009

BIOCHEMISTRY—Paper I

(Section A-II and B)

Time : Two Hours and Forty-five Minutes

Maximum : 45 Marks

Answer Sections A-II and Section B in **separate** answer books.  
Draw diagrams wherever necessary.

**Section A-II**

- II. What is the normal serum cholesterol level? Enumerate the major steps of synthesis of cholesterol. What are the important compounds synthesised from cholesterol?

*Cholesterol synthesis pathway*

(1 + 6 + 3 = 10 marks)

- III. Write short notes on :

- (a) Metabolic derangements in Diabetes Mellitus.  
(b) Classify proteins giving examples for each class.

(2 × 5 = 10 marks)

**Section B**

- IV. Write briefly on :

- (a) Factors influencing enzyme activity.  
(b) Heteropoly saccharides.  
(c) Transmethylation reactions.  
(d) Serotonin.  
(e) Fatty acid synthase complex.

(5 × 3 = 15 marks)

- V. Give brief and precise answers :

- (a) Mitochondria.  
(b) Essential pentasuria.  
(c) Von-Gierke's disease.  
(d) Figlu excretion test.  
(e) Mutarotation.

(5 × 2 = 10 marks)