

FIRST PROFESSIONAL M.B.B.S. DEGREE EXAMINATION, OCTOBER 2008

BIOCHEMISTRY Paper—I (SECTION A—II and SECTION B)

Time : Two Hours and Forty five minutes

Maximum : 45 Marks

Answer Sections A-II and B in separate answer-books.

Draw diagrams wherever necessary.

Section A-II

- II. How is glucose metabolised under anaerobic conditions ? How is the pathway regulated ? What is the significance of the pathway in RBC'S ?

(5 + 2 + 3 = 10 marks)

: short notes on :

- (a) Lipoproteins.  
(b) Secondary structure of proteins. 2012

(2 × 5 = 10 marks)

Section B

- IV. (a) Characteristics of allosteric enzymes.  
(b) Synthesis of creatinine.  
(c) Structure of bio-membrane. 2007  
(d) Functions of prostaglandins.  
(e) Classify enzymes with one example for each class. 2012

(5 × 3 = 15 marks)

: brief and precise answers :

- (a) High energy compounds.  
(b) Significance of HMP shunt pathway. 2  
(c) Define  $K_m$  value. What is its significance ? 2004  
(d) Ketone bodies.  
(e) Kwashiorkor

(5 × 2 = 10 marks)