

G 7164

Reg. No.....

Name.....

**FIRST PROFESSIONAL M.B.B.S. DEGREE (SUPPLEMENTARY)  
EXAMINATION, MARCH 2012**

**PHYSIOLOGY—Paper I**

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. \* Discuss in detail how oxygen is transported from Lungs to tissues.  
\* Give the major differences of Myoglobin from Haemoglobin A.

(7 + 3 = 10 marks)

III. Give the physiological basis for the following :

- (a) Hydrochloric Acid secretion in Gastric juice.  
(b) Stroke output of heart increases during exercise.  
(c) High protein diet increases the ability of the kidneys to concentrate urine.  
(d) Blood does not clot while in circulation.  
(e) Cyanide poisoning is a classical example of Histotoxic Hypoxia.

(5 × 2 = 10 marks)

**Section B**

- IV. (a) Diagrammatically represent the different leucocytes normally circulating in blood.  
(b) Write down the functions of each briefly.

(5 + 5 = 10 marks)

V. Write briefly on :

- (a) Cephalic phase of Gastric secretion.  
(b) Functions of platelets.  
(c) End Diastolic volume.  
(d) Micturition Reflex.  
(e) Decompression sickness.

(5 × 3 = 15 marks)