

G 6631

Reg. No.....

Name.....



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

PHYSIOLOGY—Paper II

Time : Two Hours and Fortym Five Minutes

Maximum : 45 Marks

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

Section A-II

- II. (a) Name the Hyperglycaemic hormones.
(b) Give an account of the actions of Insulin on :
 (i) Carbohydrate metabolism.
 (ii) Fat metabolism.
(c) Write down the salient differences between Diabetes Mellitus and Diabetes Insipidus.
(2 + 6 + 2 = 10 marks)
- III. (a) Explain the functions of Muscle spindle with the help of a neatly labelled diagram.
(b) Give an account of actions of the hormones elaborated from zonafasciculata of Adrenal cortex.
(2 × 5 = 10 marks)

Section B

- IV. Give the physiological basis of the following :
(a) Cretins are mentally retarded.
(b) L DOPA is the drug of choice in Parkinsonism.
(c) Varicocele is a major cause of sterility.
(d) Bitemporal Heteronymous Hemianopia occurs in pituitary tumor.
(e) The area of the membrane is considerably reduced at the oval window when compared with the outer one.
(5 × 2 = 10 marks)
- V. (a) Name *two* Antithyroid drugs. Explain how they act.
(b) What are the salient changes observed in ovary and uterus during Luteal/secretory phase of menstrual cycle.
(c) What is Acromegaly ? Explain its features.
(d) Write down the physiological basis of "gate control theory" of pain.
(e) Explain the latest theory of Hearing.
(5 × 3 = 15 marks)