MT–606  Seat No._______
First Year Dip. in Pharmacy Examination
May/June – 2003
Human Anatomy & Physiology
(New Course)

Time : 3 Hours] [Total Marks : 80

Instructions : (1) Attempt any three questions from each section.
   (2) All questions carry equal marks.
   (3) Tie both sections separately.
   (4) Draw diagram wherever necessary.

SECTION – I

1 (a) Give the difference between endocrine and exocrine gland. Enumerate hormones of pituitary gland. Describe their functions. 10
   (b) Discuss the disorders associated with hypo and hyper secretion of thyroid gland. 3

2 (a) Draw a labelled diagram of cross section of eye. Write in brief accomodation of eye ball. 8
   (b) Write a note on ‘internal ear’. 5

3 (a) What is respiration ? Write mechanism and factors regulating respiration. 8
   (b) Write a note on ‘Muscular tissue’. 5

4 (a) Explain the blood clotting mechanism with the factors involved in it. 5
   (b) Write a note on ‘blood group’. 5
   (c) Discuss the factors regulating cardiac output. 4

5 (a) Draw and label the L.S. of Kidney. 5
   (b) Enumerate various parts of nephron. Explain physiology of ‘Urine formation’. 8

MT–606] 1 [Contd...
SECTION - II

6 (a) Describe structure and function of Testis. 7
   (b) Explain physiology of menstrual cycle. 6

7 (a) Describe the composition and function of gastric juice. 7
   (b) Discuss the function of Liver. 6

8 (a) Draw a labelled diagram of brain (L.S.). Write functions of hind brain. 9
   (b) Write a note on spleen. 4

9 (a) Define autonomic nervous system. Write a note on sympathetic nervous system. 7
   (b) Draw a labelled diagram of ‘reflex arc’. Describe the type of reflexes. 6

10 Write short notes on following : (any four) 14
   (1) Cell Membrane
   (2) Joints
   (3) E.C.G.
   (4) Cranial nerves
   (5) Mitosis.