

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 accommodation 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**

SECTION - II

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| 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. | |
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