

THE TAMIL NADU DR. M.G.R. MEDICAL UNIVERSITY

[PHARMD 1023]

OCTOBER 2023

Sub. Code: 3801

**PHARM. 'D' DEGREE EXAMINATION
FIRST YEAR (2009-2010 Regulation)
PAPER I – HUMAN ANATOMY AND PHYSIOLOGY**

Q.P. Code: 383801

Time : Three hours

Answer ALL Questions

Maximum : 70 Marks

I. Elaborate on:

(4 x 10 = 40)

1. Explain in detail the role of kidneys in acid-base balance.
2. Describe the structure and functions of heart with a neat labeled diagram.
3. Explain in detail the structure, hormones secreted and functions of adrenal gland.
4. Write a brief note on the chemical digestion and absorption of carbohydrates in the small intestine.

II. Write notes on:

(6 x 5 = 30)

1. Write a note on the transport of gases in blood.
2. Discuss the phases of menstrual cycle.
3. Write the composition and functions of blood.
4. Draw a neat labeled diagram of ear.
5. Write a note on the electrophysiology of skeletal muscle contraction.
6. Write a note on clearance tests and its significance.
