

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

(LP 4253)

AUGUST 2019

Sub Code: 4253

**B.PHARM. DEGREE EXAMINATION
FIRST YEAR
PAPER III – ANATOMY, PHYSIOLOGY AND HEALTH EDUCATION**

Q.P. Code : 564253

Time: Three hours

Maximum: 100 Marks

I. Elaborate on: **(2 x 20 = 40)**

1. a) Draw the internal structure of a human Heart and label it.
b) What is Hypertension? How it has been regulated?
2. Explain Urine formation and factors regulating it with a diagram.

II. Write notes on: **(8 x 5 = 40)**

1. Explain different lung volumes.
2. Differentiate sympathetic and parasympathetic systems.
3. Write the functions of hypothalamus.
4. What are rods and cones? Give its importance.
5. Write the factors affecting erythropoiesis.
6. Write the disorders of Thyroid hormone.
7. What are oral contraceptives? Give its mechanism of action.
8. Give the composition and functions of pancreatic juice.

III. Short answers on: **(10 x 2 = 20)**

1. Give the histological structure of a cardiac muscle.
2. Give four functions of epithelial tissue.
3. What are the movements of shoulder joint?
4. What is hemophilia and purpura?
5. How carbon dioxide is transported?
6. Name the male and female sex hormones.
7. What is dwarfism and cushing syndrome?
8. Give the mode of transport and causative organism of TB.
9. Name two viral diseases and its causative organisms.
10. Name the bone of upper limb.
