

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

[LN 6253]

AUGUST 2018

Sub. Code: 6253

**BPT DEGREE EXAMINATION
FIRST YEAR
PAPER III – PHYSIOLOGY AND APPLIED PHYSIOLOGY**

Q.P. Code: 746253

Time: Three hours

Maximum: 100 Marks

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

1. What is erythropoiesis? Write in detail about the stages of erythropoiesis and factors affecting it.
2. Name the ascending tracts of spinal cord. Add a note on pain pathway-its origin, course and its termination.

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

1. Jaundice.
2. Types of leucocytes and its function.
3. Visual pathway.
4. Renin angiotensin system.
5. Plasma proteins.
6. Regulatory centres of respiration.
7. Adrenocortical hormones.
8. Effects of exercise on cardiovascular system.

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

1. Rods and cones.
2. Two functions of oxytocin.
3. Functions of bile.
4. What is innate immunity?
5. Name two gastrointestinal hormones.
6. Define cardiac output.
7. Three steps in formation of urine.
8. What is synapse?
9. Cause of cretinism.
10. Name two clotting factors.
