

[LO 6274]

FEBRUARY 2019

Sub. Code: 6274

**BPT DEGREE EXAMINATION  
FIRST YEAR**

**(Regulations for the candidates admitted from 2017-2018 onwards)  
PAPER III – PHYSIOLOGY AND APPLIED PHYSIOLOGY**

*Q.P. Code: 746274*

**Time: Three hours**

**Maximum : 100 Marks**

**I. Elaborate on:**

**(2 x 15 = 30)**

1. Discuss the origin, course and functions of Pyramidal tract. Add a note on Hemiplegia.
2. Discuss in detail the stages of erythropoiesis and the factors affecting it. Add a note on polycythemia.

**II. Write notes on:**

**(10 x 5 = 50)**

1. Hypoxia.
2. Functions of thyroid hormone.
3. Neuromuscular junction.
4. Contraception.
5. Functions of saliva.
6. Micturition reflex.
7. Short term regulation of blood pressure.
8. Conduction system of heart.
9. Normal E.C.G.
10. Functions of Cerebellum.

**III. Short answers on:**

**(10 x 2 = 20)**

1. List lung volumes and it's normal value.
2. Smooth muscle.
3. List four special features of coronary circulation.
4. Na<sup>+</sup> K<sup>+</sup> pump.
5. Refractory errors.
6. Diabetes mellitus.
7. What is surfactant?
8. Mention the functions of skin.
9. Heart sounds.
10. Two effects of exercise on Respiration.