

[LP 6274]

AUGUST 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. Describe in detail with the help of diagrams the molecular mechanism of contraction of Skeletal Muscle. Add a note on rigor mortis.
2. Describe uterine and ovarian changes during different phases of menstrual cycle with neat diagram. Add a note on hormonal changes during menstrual cycle.

II. Write notes on:

(10 x 5 = 50)

1. Facilitated diffusion.
2. Functions of plasma proteins.
3. Movements of small intestine.
4. Cystometrogram.
5. Functions of glucocorticoids.
6. Types of shock.
7. Artificial respiration.
8. Draw respiratory membrane and explain factors affecting diffusion of gases.
9. What is referred pain? Explain theories associated with it.
10. Functions of middle ear.

III. Short answers on:

(10 x 2 = 20)

1. Types of T lymphocytes.
2. Sarcomere.
3. Functions of bile salts.
4. What are diuretics? Give two examples.
5. Babinski's sign and its significance.
6. Dark adaptation in eye.
7. Name hormones involved in calcium homeostasis.
8. Physiological basis of pregnancy tests.
9. Types of sleep.
10. Muscles involved in breathing.
