

**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. Name the various blood groups. What is the importance of knowing the blood groups? Add a note on transfusion reaction.
2. Describe the location of the respiratory centres and the nervous regulation of respiration.

II. Write notes on:

(8 x 5 = 40)

1. Difference between cortical and juxta-medullary nephrons.
2. Formation of hydrochloric acid.
3. Neuro-muscular junction.
4. Carbon-dioxide transport.
5. Spermatogenesis.
6. Hypothyroidism.
7. Parkinsonism.
8. Conduction system of heart.

III. Short answers on:

(10 x 2 = 20)

1. Refractory period.
2. Platelets.
3. What are the different types of hypoxia?
4. Peptic ulcer.
5. Mention any four functions of calcium.
6. Define Glomerular Filtration Rate. What is the normal GFR?
7. Define cardiac output. Name two methods of determining cardiac output.
8. Functions of middle ear.
9. Structure of skin.
10. Name the muscle proteins.
