

**BACHELOR IN PROSTHETICS AND ORTHOTICS****FIRST YEAR****PAPER II – PHYSIOLOGY***Q.P. Code: 802452***Time: Three Hours****Maximum : 100 Marks****Answer All questions****I. Elaborate on:****(3 x 10 = 30)**

1. List the different descending tracts. Describe the origin, course, termination and functions of the pyramidal tracts.
2. Describe the various events that occur during the cardiac cycle.
3. With the help of a diagram, describe the different lung volumes and capacities.

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

1. Describe the mechanics of breathing.
2. What is an action potential? Describe with a diagram.
3. Describe the structure of skeletal muscle.
4. Describe the different mechanisms of transport across the cell.
5. List the different White blood cells (WBCs) with their functions.
6. Describe the micturition reflex.
7. Describe the action of insulin. Add a note on Diabetes mellitus.
8. Describe the functions of skin.

**III. Short answers on:****(10 x 3 = 30)**

1. List the functions of the kidney.
2. List the functions of the cerebellum.
3. What is meant by the following terms?  
(a) Apnoea (b) Tachypnoea
4. What is hypertension?
5. What is the normal RBC count?
6. What are the functions of platelets?
7. What is meant by muscle fatigue?
8. What is meant by anemia? Give two causes.
9. What is referred pain?
10. What is lymph? What are the functions of lymph?

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