

[LJ 0816]

AUGUST 2016

Sub. Code :2402

B.Sc. PROSTHETICS AND ORTHOTICS

FIRST YEAR

PAPER II – PHYSIOLOGY

Q.P. Code: 802402

Time: Three Hours

Maximum : 100 Marks

Answer All questions

I. Elaborate on:

(3 x 10 = 30)

1. List the various structure present in a cell with one function of each structure.
2. Describe the various events that occur in the cardiac cycle.
3. Describe the secretion, action and regulation of insulin. Add a note on diabetes mellitus.

II. Write notes on:

(8 x 5 = 40)

1. Micturition reflex.
2. Describe the different lung volumes with the help of a diagram.
3. List the functions of the hypothalamus.
4. What is meant by the term “muscle tone”? Define the terms hypotonia, atonia and hypertonia.
5. Trace the origin, course, termination and function of the pyramidal tract.
6. Coagulation pathways of blood.
7. Classify white blood cells. List the functions of white blood cells.
8. Describe the structure of the neuromuscular junction.

III. Short answers on:

(10 x 3 = 30)

1. Functions of the kidney.
2. What is hypoxia? List one condition that can cause hypoxia.
3. List the muscles involved in respiration.
4. Functions of skin.
5. Types and functions of neuroglia.
6. Describe the composition and functions of lymph.
7. What is a motor unit?
8. Functions of plasma proteins.
9. Define blood pressure. What is the normal blood pressure?
10. Functions of the respiratory system.
