

B.Sc. CRITICAL CARE TECHNOLOGY
(New Syllabus 2015-2016)

FIRST YEAR

Paper I – ANATOMY AND BIOCHEMISTRY

Q.P Code : 801231

Time : Three Hours

Maximum : 100 Marks

Answer All Questions

I. Elaborate on:

(3 x 10 = 30)

1. Describe the heart under the following headings: (a) Borders and surfaces
(b) External features (c) Chambers (d) Valves and nerve supply.
2. Write about the spinal cord under the following headings:
(a) Extent (b) External features (c) Cross section and (d) Blood supply.
3. Describe the mechanisms involved in the regulation of blood pH.

II. Write Notes on:

(8 x 5 = 40)

1. Contents of the intercostal space.
2. Lobes of the brain.
3. Secretions of the pancreatic gland.
4. Anatomical planes.
5. Plasma proteins and their functions.
6. Sympathetic nervous system.
7. Blood supply and nerve supply of diaphragm.
8. Bronchopulmonary segments.

III. Short Answers on:

(10 x 3 = 30)

1. List three neuroglial cells and their functions.
2. Name three muscles of the arm and their functions.
3. List the parts of the sternum.
4. Name the enzymes that are used to diagnose liver diseases.
5. What are the tests done to diagnose diabetes mellitus?
6. Biochemical basis and clinical features of kwashiorkor.
7. What is hypokalemia?
8. Deficiency of thiamine.
9. Types of tissues.
10. List three muscles of lower limb and their functions.