

**DIPLOMA IN OPERATION THEATRE & ANAESTHESIA TECHNOLOGY/
DIPLOMA IN CRITICAL CARE TECHNOLOGY**

FIRST YEAR

PAPER I – ANATOMY, PHYSIOLOGY AND BIOCHEMISTRY

Q.P. Code : 841101

Time : Three Hours

Maximum : 100 Marks

Answer ALL questions

I. Elaborate on:

(3 x 10 = 30)

1. Describe the Surface Markings and Internal Anatomical structures of the Heart.
2. Write in detail the functions of the Kidney and formation of Urine.
3. Classify and describe the structure of Protein.

II. Write notes on:

(10 x 5 = 50)

1. Side determination of Scapula.
2. Bronchial Tree.
3. Normal findings in Chest X ray PA view.
4. Composition of Blood.
5. Calcium Metabolism.
6. Stages of Menstrual Cycle.
7. Cardiac Cycle.
8. Factors affecting Enzyme activity.
9. Synovial joint.
10. Carbohydrate Metabolism.

III. Short answers on:

(10 x 2 = 20)

1. Define Basal Metabolic Rate.
2. What are Immunoglobulins?
3. Difference between Marasmus and kwashiorkor.
4. Respiratory Quotient.
5. Anatomical features of Femur.
6. Water soluble Vitamins.
7. Contents of Mediastinum.
8. Vital Capacity.
9. Parts of a Nephron.
10. What is Surfactant?
