

**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 structure of Nephron? Explain Renal function tests.
2. Elaborate on classification of enzymes and factors affecting enzyme activity.
3. Write in detail about Composition and Functions of Blood.

II. Write notes on:

(10 x 5 = 50)

1. Urinary bladder.
2. Clavicle.
3. Intercostal Space.
4. Hypertension.
5. Functions of CSF.
6. Mechanism of Respiration.
7. Endocytosis and Exocytosis.
8. Heart sounds.
9. Write briefly about a) Sodium and b) Calcium
10. Functions of Protein.

III. Short answers on:

(10 x 2 = 20)

1. Partial pressure of oxygen.
2. Bleeding time and clotting time.
3. Repolarisation of Nerves.
4. Stroke volume.
5. Alkalosis.
6. Albumin.
7. Third thoracic vertebra (T3).
8. Functions of Cell membrane.
9. Classify nervous system.
10. Define a) Normality b) pH.