

**B.Sc. DIALYSIS TECHNOLOGY**

**FIRST YEAR**

**PAPER I – ANATOMY, PHYSIOLOGY, BIOCHEMISTRY &  
PATHOLOGY - I**

*Q.P. Code: 801301*

**Time: Three Hours**

**Maximum : 100 Marks**

**Answer All questions**

**I. Elaborate on:**

**(3 x 10 =30)**

1. Composition of Blood, functions of the blood and plasma proteins.
2. Describe in detail the thoracic cage, muscles of respiration and the respiratory cycles.
3. Define Inflammation. Give a detailed account of General features of inflammation. Add a note on acute inflammation.

**II. Write notes on:**

**(8 x 5 = 40)**

1. Describe the general principals of microbial pathogenesis.
2. Cell Structure and functions of the varies organelles.
3. Coronary arteries.
4. What are lipids? How are they classified?
5. Detailed description about WBC.
6. Foetal circulation.
7. Electro cardiogram (ECG).
8. Mechanism of enzyme action.

**III. Short answers on:**

**(10 x 3 = 30)**

1. Role of bile in the digestion.
2. Hypothalamic hormones.
3. Henderson – Hasselbalch equation.
4. GI hormones.
5. Causes of cell injury.
6. Name 3 Parasitic infections.
7. Connective tissue.
8. Mention the causes of hyperkalemia.
9. Examples of cell injury and necrosis.
10. Disorders of the immune system.

\*\*\*\*\*