

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. Define Electrocardiogram and describe in detail the waves of a normal electrocardiogram.
2. Describe the chemical regulation of respiration.
3. What is countercurrent mechanism? Describe the anatomical and physiological basis of countercurrent mechanism in kidney.

II. Write notes on:**(8 x 5 = 40)**

1. Spermatogenesis.
2. Micturition.
3. Definitions and normal values of lung volumes and lung capacities.
4. Classification, function and chemical structure of monosaccharides.
5. Coagulation system.
6. Procedure of recording ECG.
7. How do you determine PCV and give the significance of PCV?
8. Molecular basis of cancer.

III. Short answers on:**(10 x 3 = 30)**

1. Outcome of acute inflammation.
2. Apoptosis.
3. Heart sounds.
4. Respiratory movements.
5. Function of thyroid hormones.
6. Structure of RNA.
7. Blood groups.
8. Anticoagulants.
9. Respiratory unit.
10. Vitamin C.
