

B.Sc. CARDIAC TECHNOLOGY

FIRST YEAR

**PAPER I – APPLIED ANATOMY, PHYSIOLOGY AND BIO-CHEMISTRY
RELATED TO CARDIAC TECHNOLOGY**

Q.P. Code: 801508

Time: Three Hours

Maximum: 100 Marks

Answer all questions

I. Elaborate on:

(3 x 10 = 30)

1. Write in detail about the Heart under following headings.
a) Coverings b) External features c) Chambers of Heart
d) Valves of Heart e) Surface Marking of Apex of Heart.
2. Describe in detail about the Mechanics of Cardiac Cycle. Add a note on ECG.
3. Describe in detail about the Krebs cycle.

II. Write notes on:

(8 x 5 = 40)

1. Pleura.
2. Typical Rib.
3. Resistance Vessels.
4. Classify body fluids.
5. Components of blood. Add a note on Red Blood Cells.
6. Renal Pelvis.
7. Classify Carbohydrates with examples.
8. Antigen Antibody Reactions.

III. Short answers on:

(10 x 3 = 30)

1. Purkinje fibres.
2. Bones forming the Thoracic cage.
3. Define connective tissue.
4. Vital capacity of Lung.
5. Frank- Sterling's law.
6. Muscles of respiration.
7. Types of RNA.
8. Emulsification.
9. Denaturation of proteins.
10. Rickets.