

**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. Explain lung under the following headings: (i) External features (ii) Fissures and Lobes (iii) Blood supply and (iv) add a note on Bronchial Tree.
2. Define Blood pressure. Describe the regulation of Blood pressure and add a note on hyper tension.
3. Explain in detail about the vitamin D. Add a note on calcium homeostasis.

II. Write notes on:

(8 x 5 = 40)

1. Coronary arteries.
2. Muscles of respiration.
3. Pericardium and its sinuses.
4. Pacemaker potential
5. Name the two pathways of coagulation. Describe any one pathway.
6. Special features and regulation of coronary circulation.
7. Active site.
8. Fatty liver.

III. Short answers on:

(10 x 3 = 30)

1. Mention the types of cartilage and write the salient features of hyaline cartilage.
2. Trigone of urinary bladder.
3. Typical ribs.
4. Stages of erythropoiesis.
5. Windkessel effect.
6. What is Total Lung Capacity?
7. Cardiac failure.
8. Types of antibody.
9. Amphipathic lipids.
10. Sunshine vitamin.
