

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 Kidney under the following headings with neat labelled diagrams.
 - a) Location
 - b) External Features
 - c) Blood Supply
 - d) Add a note on the structure of Nephron
2. Explain in detail about the Physiology of Respiration under the following headings
 - a) Mechanics of Respiration
 - b) Principles of Gas exchange
3. Classify Antibodies. Write in detail about IgM.

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

1. Intercostal space.
2. Venous drainage of Heart.
3. Classify Cartilage. Write notes on Hyaline cartilage.
4. Cardic failure.
5. Cerebral circulation.
6. Plasma.
7. Marasmus and Kwashiorkor.
8. Classify Proteins with examples.

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

1. Bowman's capsule.
2. Pericardium.
3. Atherosclerosis.
4. Branches of Arch of aorta.
5. Valsalva manoeuvre.
6. Mean Arterial Pressure.
7. Heart sounds.
8. Lipoproteins.
9. Pernicious anaemia.
10. Benedict's test.
