

[LH 0815]

AUGUST 2015

Sub. Code: 1508

**B.Sc. CARDIAC TECHNOLOGY**  
(New Syllabus 2014-2015)

**FIRST YEAR**

**PAPER I – APPLIED ANATOMY, PHYSIOLOGY AND BIOCHEMISTRY**  
**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. Draw and explain about trachea bronchial tree of respiratory system.  
Add note on pulmonary circulation.
2. Explain the mechanical events of cardiac cycle.
3. Explain the detail about vitamin D. Add a note on calcium homeostasis.

**II. Write Notes on:**

**(8 x 5 = 40)**

1. Muscles of respiration.
2. Valves of the heart.
3. Types of epithelial cells.
4. Transport of oxygen.
5. Pacemaker of the heart.
6. Functions of blood.
7. Classification of hetero polysaccharides.
8. Give a note on pellagra.

**III. Write Notes on:**

**(10 x 3 = 30)**

1. Draw and label the parts of scapula.
2. Blood vessels of heart.
3. Give a note on cartilages.
4. Types of shock.
5. Landsteiner's law.
6. Define cardiac output.
7. Hormones of posterior pituitary gland.
8. List the fat soluble vitamins.
9. Structure of DNA.
10. Types of antibody.

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