

[LG 0215]

FEBRUARY 2015

Sub.code: 1501

**B.Sc. CARDIAC TECHNOLOGY
FIRST YEAR
PAPER I – APPLIED ANATOMY, PHYSIOLOGY AND BIOCHEMISTRY
RELATED TO CARDIAC TECHNOLOGY**

Q.P. Code : 801501

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 of lungs (iii) Blood supply and
(iv) Note on Bronchial Tree.
2. Define cardiac output. Mention its normal value. Add a note on factors
regulating it.
3. Describe sources, biochemical functions, requirement and deficiency
manifestations of vitamin A.

II. Write notes on:

(8 x 5 = 40)

1. Intercostal muscle.
2. Blood supply of Heart.
3. Define epithelium. Write note on transitional epithelium.
4. Functions of Blood.
5. Cardiovascular response to shock.
6. Clinical significance of LDH.
7. Lipoproteins.
8. Heteropolysaccharide.

III. Short answers on:

(10 x 3 = 30)

1. Angina pectoris.
2. Define supination and pronation.
3. Hilum of Kidney.
4. Syncope.
5. Frank – starling Law.
6. Muscles of inspiration.
7. Chylomicrons.
8. Essential fatty acids.
9. Base pairing rule.
10. Factors influencing the calcium absorption.
