

**THE TAMIL NADU DR. M.G.R. MEDICAL UNIVERSITY**

[AHS 1122]

**NOVEMBER 2022**

**Sub. Code: 1508**

**B.Sc. CARDIAC TECHNOLOGY  
FIRST YEAR (Regulation 2014-2015)  
PAPER I – APPLIED ANATOMY, PHYSIOLOGY AND BIO-CHEMISTRY  
RELATED TO CARDIAC TECHNOLOGY  
Q.P NO. 801508**

**Time: Three Hours**

**Maximum : 100 Marks**

**Answer All questions**

**I. Elaborate on : (3X10=30)**

1. Describe in detail about the external features of Heart. Add a note on its applied anatomy.
2. Describe in detail about Cardiac cycle.
3. Classify carbohydrates. Describe the digestion and absorption of carbohydrates.

**II. Write Notes on : (8X5=40)**

1. Muscles of thorax and its functions.
2. Interior of Right atrium.
3. Vertebral column.
4. Measurement of cardiac output.
5. Peculiarities of pulmonary circulation.
6. Neural regulation of respiration.
7. What are phospholipids? Name its functions.
8. Mechanism of enzyme action.

**III. Short Answers on : (10X3=30)**

1. Urinary bladder.
2. Intercostal muscles.
3. Pericardial sinuses.
4. Bronchial tree.
5. Blood groups.
6. Valsalva manoeuvre.
7. Henderson-Hasselbach equation.
8. Primary structure of proteins.
9. Balanced diet.
10. Antigen antibody types.

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