

**VINAYAKA MISSION'S RESEARCH FOUNDATIONS, SALEM  
(Deemed to be University)**

**B.Sc. (CARDIAC TECHNOLOGY) & M.Sc(INTEGRATED  
PROGRAMS IN CARDIAC TECHNOLOGY) DEGREE  
EXAMINATION February 2020  
Second Year**

**INTRODUCTION TO CARDIAC CARE TECHNOLOGY**

Time: Three hours

Maximum: 75 marks

**I. Write an Essay on any ONE of the following: (1 x 20 = 20)**

1. Describe Electrocardiographic papers, electrical field of the heart and Conventional electrocardiographic leads.
2. Explain the electrocardiographic manifestations of Right Bundle Branch Block.

**II. Write short notes on any TWO of the following: (2 x 10 = 20)**

3. Explain exercise physiology, exercise protocols and Techniques of exercise testing.
4. Explain the Electrocardiographic manifestations of Left Anterior Hemiblock.
5. Explain the Electrocardiographic manifestations of Left Bundle Branch Block.
6. Explain the construction & naming the degrees of the hexaxial reference system.

**III. Write short answers on any SEVEN of the following: (7 x 5 = 35)**

7. The Romhilt and Estes point score system in Left Ventricular Hypertrophy.
8. Electrocardiographic manifestations of Right Atrial Enlargement.
9. The Standardization of the electrocardiograph.
10. Causes of Prolonged Q – T<sub>c</sub>.
11. Causes of Right Axis Deviation.
12. Electrocardiographic Manifestations of Left Atrial Enlargement.
13. Basic Action of Electrocardiograph.
14. Explain the rotation of the Heart.
15. Explain Intrinsic & intrinsicoid deflexions.
16. Indications of Exercise Testing.