

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

**B.Sc. (CARDIAC TECHNOLOGY) & M.Sc(INTEGRATED
PROGRAMS IN CARDIAC TECHNOLOGY) DEGREE
EXAMINATION August 2019
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. Explain the construction and naming the degrees of the frontal plane hexaxial reference system.
2. Explain the electrocardiographic manifestations of the Left Bundle branch Block.

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

3. Explain the electrocardiographic manifestations of Left Ventricular Hypertrophy.
4. Explain the electrocardiographic manifestations of Left Posterior Hemiblock.
5. Explain the techniques of Exercise Testing.
6. Explain the Conventional Electrocardiographic leads.

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

7. Bruce Protocol in Exercise testing.
8. Electrocardiographic manifestations of Left Atrial Enlargement.
9. Explain Q-T interval and its Correction.
10. Causes of Left Axis Deviation.
11. Indications of Exercise Testing.
12. Calculation of Heart Rate and explain Sinus Rhythm in ECG.
13. The Transition Zone – Explain.
14. Basic ECG deflexions with diagram & explanation.
15. Ventricular Activation Time and its normal range.
16. Electrocardiographic manifestation in Right Ventricular Hypertrophy.