

**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**

Third Year

ADVANCED ELECTROCARDIOGRAPHY (ECG)

Time: Three hours

Maximum: 75 marks

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

1. Classify heart block. Describe the causes and ECG manifestation of heart block.
2. Types of Atrial Arrhythmias. Explain in detail about Atrial Tachycardia, Atrial Flutter and Atrial Fibrillation.

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

3. ECG manifestation in sick sinus syndrome.
4. ECG manifestation in Hypothermia.
5. The localization of myocardial infarction.
6. Describe ECG manifestation in Left Bundle Branch Block (LBBB).

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

7. ECG manifestations in biatrial enlargement.
8. ECG diagnosis in biventricular hypertrophy.
9. Criteria for pathological Q waves for old myocardial infarction.
10. Difference between monophasic and biphasic shock.
11. ECG changes in Hyperkalemia.
12. ECG manifestation in Left Anterior Hemi Block.
13. Types and causes of Ventricular Fibrillation.
14. Complications of Wolf – Parkinson – White syndrome.
15. Criteria for Ischemic and non – specific T –wave inversion.
16. Ventricular Activation Time.