

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

**B.Sc. (CARDIAC TECHNOLOGY) & M.SC(INTEGRATED CARDIAC
TECHNOLOGY) DEGREE EXAMINATION**

September 2021

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. Types of Atrial arrhythmias; Explain in detail about Atrial Tachycardia, Atrial Flutter and Atrial Fibrillation.
2. Classify Heart block. Describe the causes and ECG manifestation of Heart block.

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

3. ECG manifestations in left Anterior Hemiblock.
4. Describe ECG manifestations in Left Bundle Branch Block.
5. ECG manifestations in sick sinus syndrome.
6. Difference between monophasic and biphasic shock.

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

7. Complications of Wolf-Parkinson-White syndrome.
8. ECG diagnosis in biventricular hypertrophy.
9. ECG manifestations in biatrial enlargement.
10. Types and causes of ventricular fibrillation with diagram.
11. Criteria for Ischemic and Non-specific T wave inversion.
12. The localization of myocardial infarction.
13. ECG manifestations in left ventricular hypertrophy.
14. Explain the electrocardiogram as a prognostic guide in myocardial infarction.
15. Torsades de pointes' – multiform ventricular flutter with diagram.
16. Subendocardial infarction (or) Non ST elevation Myocardial Infarction.