

**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  
Third Year**

**TREADMILL EXERCISE STRESS TESTING AND 24 HOUR  
AMBULATORY ECG (HOLTER) RECORDING**

Time: Three hours

Maximum: 75 marks

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

1. Define Coronary insufficiency. Explain in detail about the electrocardiographic effects of impaired coronary blood flow.
2. Describe the electrocardiographic manifestations of Prinzmetal's Angina.

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

3. Explain the principles of Holter recording and Holter Analysis.
4. Explain the technique of Exercise test.
5. Explain the performance of the exercise test.
6. Explain the purpose and the uses of exercise test.

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

7. Connections of Holter Monitoring Recorder.
8. Describe Exercise Physiology.
9. Explain modified Bruce Protocol.
10. False Positive Stress Test.
11. The Poor man's exercise test with diagram.
12. Contraindication for stress test.
13. Cardiac Arrhythmias and conduction disturbance during stress testing.
14. Effects on T wave in coronary insufficiency.
15. Durke's Treadmill Score.
16. Types of ST Segment Depression with diagram and explain.

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