

**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**

**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 exercise stress test. Explain bruce and modified bruce protocol and interpretation of an exercise stress test.
2. Explain the connection, principles and indications of Holter monitoring.

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

3. Explain the syndrome of Angina Pectoris.
4. Describe the electrocardiographic manifestation in Prinzmetal's angina.
5. Explain the technique of Exercise Test.
6. Explain the types of ST segment depression with pathological hypothetical parabola diagram.

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

7. Describe Double product in stress test.
8. Duke's Treadmill Score.
9. Holter Analysis.
10. False positive stress test.
11. Poor man's exercise test with diagram.
12. Indications of stress test.
13. Describe METS and rule of 5 in strongly positive stress test.
14. Termination of stress test.
15. Emergencies in stress test laboratory.
16. Contraindications for stress test.