

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

**TREADMILL EXERCISE STRESS TESTING AND 24 HOURS
FAMBULATORY ECG (HOLTERS) 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 and explain the interpretations of an exercise stress test.
2. Explain the principles, connections of Holter recording and Holter analysis.

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

3. Explain Bruce and modified Bruce protocol.
4. Explain the physiological and pathological parabola of junctional ST segment depression.
5. Explain the syndromes of Angina Pectoris.
6. Explain the technique of exercise test.

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

7. Uses of exercise test
8. Describe METS and rule of 5 in strongly positive stress test
9. Emergencies techniques used in stress testing laboratory
10. False negative stress test
11. Termination of stress test
12. Performance of the exercise test
13. Poorman's exercise test with diagram.
14. Major adverse prognostic factors in abnormal exercise test interpretation.
15. Precautions to be taken before doing stress test
16. Explain leads connection and patient preparation during stress testing.