

**VINAYAKA MISSION'S RESEARCH FOUNDATION, SALEM
B.SC (CARDIAC TECHNOLOGY) & M.Sc (INTEGRATED CARDIAC
TECHNOLOGY) DEGREE EXAMINATION - September 2021**

Third Year

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

Three Hours

Maximum: 75 marks

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

1. Describe the syndromes of Angina Pectoris and explain the electrocardiographic manifestation in Prinzmetal's angina.
2. Explain the interpretations of an exercise stress test.

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

3. Explain the technique of exercise stress test.
4. Explain the principles of Holter recording and Holter analysis.
5. Explain Bruce and Modified Bruce protocol.
6. Describe the electrocardiographic manifestation in Prinz Metal's Angina.

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

7. False positive stress test.
8. Describe METS and Rule of 5 in strongly positive stress test.
9. Termination of stress test
10. Types of ST segment depression with diagram and explain.
11. Describe exercise physiology.
12. Describe the syndrome of angina pectoris.
13. The poor man's exercise stress test.
14. Explain the connections of Holter monitoring.
15. Cardiac arrhythmias and conduction disturbances during stress test.
16. Emergency techniques used in stress test laboratory.
