

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

B.Sc. (CARDIAC TECHNOLOGY) DEGREE EXAMINATION - March 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. Describe the Syndromes of Angina Pectoris and explain the electrocardiographic manifestation in Prinzmetal's angina.
2. Explain the purpose, uses, performance and technique of exercise test.

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

3. Explain the principles of Holter recording & Holter analysis.
4. Explain Bruce and Modified Bruce protocol.
5. Explain types of ST segment depression with pathological hypothetical parabola diagram.
6. Cardiac Arrhythmias and conduction disturbance during stress testing.

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

7. Describe double product in stress test.
8. The connection of Holter monitoring.
9. False Positive Stress Test.
10. Describe Exercise Physiology.
11. Emergencies techniques used in stress test laboratory.
12. Non – ischemic abnormalities in exercise test.
13. Describe METS & rule of 5 in strongly positive stress test.
14. Duke's treadmill score.
15. Electrocardiographic effects of impaired coronary blood flow.
16. Give an account of the technique of calculation of QRS axis from an electrocardiogram.