

[LB 0212]

AUGUST 2012

Sub. Code: 1512

B.Sc. CARDIAC TECHNOLOGY

SECOND YEAR

PAPER – II – TREADMILL EXERCISE STRESS TESTING AND  
24 HOURS AMBULATORY ECG RECORDING

Q.P. Code : 801512

Time : Three hours

Maximum : 100 marks

(180 Mins) Answer ALL questions in the same order

I. Elaborate on:

Pages Time Marks  
(Max.)(Max.)(Max.)

- |  |   |    |    |
|--|---|----|----|
| 1. What is the cardiovascular adaptation to exercise?  | 7 | 20 | 10 |
| 2. Electrocardiographic and non Electrocardiographic features used in exercise testing for diagnosis of coronary artery disease. | 7 | 20 | 10 |
| 3. Usefulness of holter in acute coronary syndromes.   | 7 | 20 | 10 |

II. Write Notes on:

- |  |   |    |   |
|--|---|----|---|
| 1. Post MI exercise testing Indication and usefulness.                         | 4 | 10 | 5 |
| 2. Usefulness in pre-operative risk stratification before non-cardiac surgery. | 4 | 10 | 5 |
| 3. Absolute contraindications for exercise testing.                            | 4 | 10 | 5 |
| 4. Reporting format of a treadmill test.                                       | 4 | 10 | 5 |
| 5. Different scores used to risk stratify based on TMT.                        | 4 | 10 | 5 |
| 6. Different types of ST changes and their measurement.                        | 4 | 10 | 5 |
| 7. Usefulness of TMT in valvular heart disease.                                | 4 | 10 | 5 |
| 8. Anginal cascade and silent myocardial ischaemia.                            | 4 | 10 | 5 |

III. Short Answers on:

- |  |   |   |   |
|--|---|---|---|
| 1. Usefulness of TMT in assessment of ventricular arrhythmias.                 | 2 | 4 | 3 |
| 2. Safety and risk of treadmill test.  | 2 | 4 | 3 |
| 3. Importance of maximal work capacity.  | 2 | 4 | 3 |
| 4. Usual BP response during exercise. What does accelerated response indicate. | 2 | 4 | 3 |
| 5. Stratification of risk using exercise test in congestive cardiac failure.   | 2 | 4 | 3 |
| 6. Non coronary causes of ST segment deviation.                                | 2 | 4 | 3 |
| 7. Indication for termination of exercise testing.                             | 2 | 4 | 3 |
| 8. Prediction of Age predicted maximum heart rate.                             | 2 | 4 | 3 |
| 9. Importance of ST elevation during exercise.                                 | 2 | 4 | 3 |
| 10. MASON LIKAR Modification of 12 lead ECG.                                   | 2 | 4 | 3 |

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