

B.Sc. CARDIAC TECHNOLOGY

SECOND YEAR

PAPER II – ADVANCED ECG AND TREADMILL EXERCISE STRESS TESTING AND 24 HOUR AMBULATORY ECG AND BP RECORDING

Q.P. Code: 801532

Time: Three Hours

Maximum: 100 Marks

Answer all questions

I. Elaborate on:

(3 x 10 = 30)

1. Discuss the indications, contraindications and precautions while doing treadmill test.
2. What are the physiological changes takes place during exercise test?
3. Indications for 24 hours BP monitoring and its procedure.

II. Write notes on:

(8 x 5 = 40)

1. P waves anomalies in ECG.
2. Discuss about monophasic and biphasic shock.
3. Absolute contraindications for exercise testing.
4. WPW syndrome.
5. Different scores used to risk stratify based on TMT.
6. Advantages and disadvantages of bicycle ergometer over treadmill.
7. Non electrocardiographic changes and importance.
8. Preparation and instruction to patient for a holter recording.

III. Short answers on:

(10 x 3 = 30)

1. What ECG features will be seen in acute inferior wall MI and in which leads?
2. ECG features of hyperthyroidism.
3. ECG features of atrial flutter.
4. What are the ECG features of hypertrophic cardiomyopathy?
5. Indication for modified Bruce protocol.
6. Target heart rate for exercise test.
7. Bayers theorem.
8. Epsilon waves.
9. Indication for termination of exercise testing.
10. Usual BP response during exercise. What does accelerated response indicate?