

**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. What are the physiological changes that take place during exercise test?
2. Electrocardiographic and non electrocardiographic, features used in exercise testing for diagnosis of coronary artery disease.
3. Discuss about the various types of Heart block.

II. Write notes on:

(8 x 5 = 40)

1. What are the ECG features of right bundle branch block and left bundle branch block?
2. Which are the leads showing changes in RV Myocardial Infarction?
3. Differentiation of ventricular and supraventricular premature beats in ECG.
4. Different types of ST depression.
5. Reporting format of a treadmill test.
6. Anginal cascade and silent Myocardial Ischaemia.
7. ECG of hypokalaemia and hyperkalaemia.
8. Various types of holter monitoring and abnormalities in holter.

III. Short answers on:

(10 x 3 = 30)

1. U wave in ECG.
2. Causes for right axis deviation.
3. Biatrial enlargement.
4. Indication for modified Bruce protocol.
5. Dietary advise before treadmill test.
6. Early post PCI treadmill. Does it indicate restenosis.
7. MASON LIKAR Modification of 12 lead ECG.
8. Relative contraindications in exercise stress test.
9. Effort tolerance in relation to METZ.
10. ECG features of hyperthyroidism.