



B. Sc. CARDIAC TECHNOLOGY – 2023 BATCH
INTERNAL ASSESSMENT - II

Year: II-year

Subject Name: Paper II-ADVANCED ECG AND TREADMILL EXERCISE STRESS TESTING AND 24 HOURS AMBULATORY ECG AND BP RECORDINGS

Time: 3 hours

Subject Code: 801532

Maximum: 100 marks

Answer all the questions

I. Elaborate on

10 x 3 = 30

1. Discuss the indications, contraindications and precautions while doing treadmill test.
2. Indications and contra – indication, patient preparation for 24 hours BP monitoring and its procedure.
3. Discuss in detail ECG features in various types of Myocardial Infarction.

II. Write notes on

5 x 8 = 40

1. ECG criteria in LVH.
2. Blood pressure changes during Treadmill exercise Test.
3. ECG features of Atrial abnormalities.
4. ECG in Left bundle branch block.
5. Causes for T wave Inversion ECG
6. Electrolytic Imbalance in ECG changes Mechanisms.
7. Primary and Secondary T wave Changes in ECG
8. Types II and Types III Heart Block

III. Short answers on

3 x 10 = 30

1. Connection of Holter Recording ?
2. Modified Chest Leads
3. RVH ECG ?
4. Types of VPC ?
5. ECG features of Hypercalcemia ?
6. Q WAVES changes in ECG?
7. ECG changes of Hyperthyroidism ?
8. Usefulness of Holter in palpitations?
9. Prolonged PR intervals?
10. 1) Which ECG leads are most commonly used to localize an anterior wall myocardial infarction?
A) Leads I, aVL, V5, V6 B) Leads II, III, Avf C) Leads V1, V2, V3, V4 D) Leads V7, V8, V9
2) The presence of ST elevation in leads V1 and V2 with reciprocal changes in leads V5 and V6 is indicative of a:
A) Posterior wall myocardial infarction B) Anteroseptal myocardial infarction
C) Inferolateral myocardial infarction D) Right ventricular myocardial infarction
3) Which additional lead is recommended to confirm a right ventricular myocardial infarction in a patient with inferior MI? A) V4R B) V7 C) V3R D) V5R