



B. Sc. CARDIAC TECHNOLOGY – 2023 BATCH

Year: II-year

Subject Name: Paper III -Echocardiography

Date of the exam: 31/03/2025

Time: 3 hours

Subject Code: 1533

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. Discuss about localization of ischemia / infarction based on ECG.
3. Normal QRS axis and explain in detail about various QRS axis deviations and its causes.

II. Write Notes on

8x5=40

1. Normal segments and intervals in ECG.
2. Discuss about monophasic and biphasic shock.
3. How will you diagnose LVH?
4. Discuss about QT prolongation and its causes.
5. Criteria for RVH.
6. LBBB and RBBB.
7. P-wave abnormalities
8. Different types of ST depression.

III. Write short Notes on:

10x3=30

1. LAHB and LPHB.
2. ECG features of mitral stenosis.
3. Causes for right axis deviation.
4. Dietary advice before treadmill test.
5. T-Waves in ECG.
6. Draw Einthoven triangle.

7. METZ in stress test.

8. MASON LIKAR Modification of 12 lead

9. Write about U wave in ECG

10. 1. P-pulmonale is typically associated with which of the following conditions?

- A) Left atrial enlargement B) Right atrial enlargement
C) Left ventricular hypertrophy D) Right bundle branch block

2. In which precordial lead is P-pulmonale most often best seen?

- A) V1 B) V2 C) V5 D) V6

3. Which of the following is an **absolute indication** for stopping an exercise stress test ? A) Mild fatigue B) Systolic BP drop >10 mmHg with increased workload

- C) Sustained ventricular tachycardia D) Shortness of breath