

SNS COLLEGE OF ALLIED HEALTH SCIENCES COIMBATORE -35 (Affiliated to the Tamil Nadu Dr M.G.R Medical University, Chennai)



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

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 $10 \times 3 = 30$

1.Discuss the ECG findings in ventricular tachycardia. How will you differentiate between ventricular tachycardia and supraventricular tachycardia?

- 2. How will you set a stress test laboratory? What are the precautions you will take during the test?
- 3. Discuss about the various types of Heart block.

II. Write notes on $5 \times 8 = 40$

- 1.Discuss about ECG changes in hypokalemia.
- 2. Discuss about monophasic and biphasic shock.
- 3. How will you diagnose LVH?
- 4. Discuss about QT prolongation and its causes.
- 5. Discuss about ventricular Fibrillation.
- 6. Discuss about various ECG changes in exercise testing.
- 7. Normal segments and intervals in ECG.
- 8. How will Left circumflex infarction manifest on ECG?

III. Short answers on

 $3 \times 10 = 30$

- 1.Biatrial enlargement.
- 2. Modified Bruce protocol.
- 3. Connections of Holter.
- 4. Enumerate three points to diagnose RVH.
- 5. Enumerate three points to diagnose a malignant VPC.
- 6. Discuss the applications of Holter.
- 7. Enumerate the ECG findings in Left anterior hemiblock.
- 8. Non infarction Q waves.
- 9. Draw an ECG showing Atrial flutter and mark the salient features.
- 10. 1. Which of the following statements about defibrillation is true?
- A) It is synchronized with the R wave. B) It is used in patients with atrial fibrillation.
- C) It is used in ventricular fibrillation and pulseless VT. D) It uses low energy shocks.
- 2. Cardioversion is synchronized with which part of the ECG?
- A) P wave B) QRS complex (R wave) C) T wave D) PR interval
- **3.** A 55-year-old patient with atrial flutter and stable blood pressure requires electrical therapy. The preferred management is:
- A) Defibrillation B) Cardioversion (synchronized)
- C) Chest compressions D) Unsynchronized DC shock