



SNS COLLEGE OF ALLIED HEALTH SCIENCE, COIMBATORE -35.

(Affiliated to The Tamil Nadu Dr. M.G.R. Medical University, Chennai)

DEPARTMENT OF CARDIAC TECHNOLOGY

IN-CLASS ASSESSMENT FOR THE SUBJECT BASIC ECG



Unit-3-The normal electrocardiogram Atrial activation The normal P wave Atrial repolarization Atrioventricular node conduction and the PR segment Ventricular activation and the QRS complex Ventricular recovery and ST-T wave U wave Normal variants Rate and rhythm

Multiple Choice Questions (10 Questions × 1 Mark = 10 Marks)

Each question carries 1 mark. Choose the correct answer.

1. The normal duration of the PR interval on an ECG is approximately:

- ☐ A) 0.10–0.12 seconds
- ☐ B) 0.12–0.20 seconds
- ☐ C) 0.20–0.25 seconds
- ☐ D) 0.25–0.30 seconds

2. Which wave on a normal ECG represents atrial activation?

- ☐ A) P wave
- ☐ B) QRS complex
- ☐ C) T wave
- ☐ D) U wave

3. The normal P wave duration is typically:

- ☐ A) Less than 0.10 seconds
- ☐ B) 0.10–0.12 seconds
- ☐ C) 0.12–0.20 seconds
- ☐ D) Greater than 0.20 seconds



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4. Atrial repolarization is usually not visible on an ECG because it is:

- ☐ **A) Too rapid**
- ☐ **B) Masked by the QRS complex**
- ☐ **C) Absent in healthy individuals**
- ☐ **D) Recorded only in lead V1**

5. The PR segment represents the time of:

- ☐ **A) Atrial depolarization**
- ☐ **B) AV node and His-Purkinje conduction**
- ☐ **C) Ventricular repolarization**
- ☐ **D) Atrial repolarization**

6. The normal QRS complex duration is:

- ☐ **A) 0.04–0.08 seconds**
- ☐ **B) 0.08–0.12 seconds**
- ☐ **C) 0.12–0.20 seconds**
- ☐ **D) 0.20–0.25 seconds**

7. The ST-T wave on an ECG primarily reflects:

- ☐ **A) Atrial activation**
- ☐ **B) Ventricular repolarization**



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- C) AV node conduction
- D) Ventricular depolarization

8. The U wave is most commonly associated with:

- A) Atrial repolarization
- B) Purkinje fiber repolarization
- C) Ventricular depolarization
- D) AV node delay

9. A normal variant on an ECG might include:

- A) ST elevation in all leads
- B) Early repolarization pattern
- C) Complete heart block
- D) Prolonged QT interval

10. The normal heart rate range on an ECG is:

- A) 40–60 bpm
- B) 60–100 bpm
- C) 100–120 bpm
- D) 120–150 bpm