



SNS COLLEGE OF ALLIED HEALTH SCIENCE, COIMBATORE -35.

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

DEPARTMENT OF CARDIAC TECHNOLOGY

EXAM QUESTIONS FOR THE SUBJECT BASIC ECG



Unit-2-Precordial leads and the Wilson central terminal Augmented limb leads The hex axial reference frame and electrical axis Recording adult and pediatric ECGs

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

Each question carries 1 mark. Choose the correct answer.

1. Which precordial lead is placed at the fourth intercostal space to the right of the sternum?
 - ☐ A) V1
 - ☐ B) V2
 - ☐ C) V5
 - ☐ D) V6
2. The Wilson Central Terminal is used as a reference for:
 - ☐ A) Standard limb leads
 - ☐ B) Precordial leads
 - ☐ C) Augmented limb leads
 - ☐ D) Bipolar leads
3. Which augmented limb lead is oriented approximately 30° from the horizontal plane?
 - ☐ A) aVR
 - ☐ B) aVL
 - ☐ C) aVF



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- D) Lead I
- 4. The hexaxial reference frame is primarily used to determine the:
 - A) Heart rate
 - B) Electrical axis
 - C) PR interval
 - D) ST segment elevation
- 5. In pediatric ECGs, the QRS axis is typically:
 - A) More leftward than in adults
 - B) More rightward than in adults
 - C) Identical to adults
 - D) Reversed compared to adults
- 6. The standard placement of V4 in precordial leads is at the:
 - A) Fifth intercostal space, midclavicular line
 - B) Fourth intercostal space, midaxillary line
 - C) Fifth intercostal space, anterior axillary line
 - D) Fourth intercostal space, sternal border
- 7. Which of the following is NOT a component of the augmented limb leads?
 - A) aVR



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- ☐ B) aVL
- ☐ C) V1
- ☐ D) aVF

8. The electrical axis is considered normal if it lies between:

- ☐ A) -30° to +90°
- ☐ B) -90° to -30°
- ☐ C) +90° to +180°
- ☐ D) 0° to +180°

9. In recording a pediatric ECG, the paper speed is typically:

- ☐ A) 10 mm/s
- ☐ B) 25 mm/s
- ☐ C) 50 mm/s
- ☐ D) 100 mm/s

10. The Wilson Central Terminal is created by averaging the potentials from:

- ☐ A) Leads I, II, and III
- ☐ B) Right arm, left arm, and left leg
- ☐ C) V1 through V6
- ☐ D) aVR, aVL, and aVF