

**VINAYAKA MISSION'S RESEARCH FOUNDATION, SALEM
(Deemed to be University)**

**B.Sc(CARDIAC TECHNOLOGY) & M.Sc(INTEGRATED CARDIAC
TECHNOLOGY) DEGREE EXAMINATIONS - September 2021**

Second Year

INTRODUCTION TO CARDIAC TECHNOLOGY

Three Hours

Maximum: 100 marks

SECTION - A

I. Choose the Best Answer :

(10 x 1 = 10)

1. Ecg is recorded at a paper speed of :
a)2.5mm/s b)0.25mm/s c)25mm/s
2. Effect of LVH on V1&V2:
a)Deep S wave b)Tall R wave c)Prominent Q wave
3. What all are the transition zone:
a)V5,V6 b)V3,V4 c)V1,V2
4. The value of 'K' in Bazett's formula is:
a)360 to 430ms b)320 to 430ms c)350 to 430ms
5. Rotation around the anteroposterior axis results in:
a)vertical heart position b)horizontal heart position c)all of the above
6. Distance between notch in camel humped 'P' wave is :
a)40ms b)60ms c)50ms
7. P,QRS,T,U waves will be inverted in which lead:
a)aVR b)Standard lead I c)aVL
8. Overdamping occurs when the pressure of the writing stylus is:
a)too loose b)too firm c)normal
9. The maximum duration of P wave is:
a)90ms b)110ms c)120ms
10. ---can be seen in the absence of heart disease:
a)LBBB b)RBBB c)LVH

II. Write Short Answers on any FIVE of the following:

(5 x 5 = 25)

11. Explain about Frontal and Horizontal leads with their placement.
12. Write about RVH and LVH causes and Symptoms.
13. Intrinsic and Intrinsicoid deflection with diagrams.
14. Causes of Left axis deviation.
15. Trace of normal ECG and name the various waves.
16. Bruce Protocol.
17. Romhilt's and Estes point score system.

(p.t.o.)

III. Write Short Essays on any TWO of the following:

(2 x 10 = 20)

18. Write about QT interval ,measurement and correction of QT interval.
19. Construction of Hexaxial reference system and normal axis.
20. Write about ECG manifestations of Left Ventricular Hypertrophy in detail.
21. What are the indications and contraindications of Treadmill test.

IV. Write Essays on any ONE of the following:

(1 x 20 = 20)

22. Explain in detail about basic principles and types of Fascicular block with neat diagrams.
23. Explain in detail about various protocol, indication,contraindication and interpretations of Treadmill test.

(S.No.M21236)

