

VINAYAKA MISSION'S RESEARCH FOUNDATION, SALEM
B.Sc(CARDIAC TECHNOLOGY) & M.Sc (Integrated Programs in Cardiac
Technology) DEGREE EXAMINATIONS -August 2019

SECOND YEAR

INTRODUCTION TO CARDIAC CARE TECHNOLOGY

Three Hours

Maximum: 75 marks

SECTION - A

I. Choose the Best Answer :

(10 x 1 = 10)

1. Cause of RVH is :
a)ASD b)Coarctation of aorta c)Aortic stenosis
2. Standard lead II is derived from the placement of --- electrode on the right arm &--- electrode on left leg:
a)-ve &+ve respectively b)-ve &-ve respectively c)+ve &-ve respectively
3. TMT is contraindicated in :
a)LBBB b)RBBB c)LVH
4. The value of 'K' in Bazett's formula is:
a)360 to 430ms b)320 to 430ms c)350 to 430ms
5. --- represents the total duration of ventricular electrical activity:
a)QT Interval b)PR Interval c)ST Segment
6. In Left atrial abnormality, P wave is directed to the region of ---counterclockwise to--- on the frontal plane:
a)+45°to +30° b)-30°to +45° c)+45°to -30°
7. Overdamping occurs when the pressure of the writing stylus is:
a)too loose b)too firm c)normal
8. The maximum duration of P wave is:
a)90ms b)110ms c)120ms
9. Inferior wall MI is an example for :
a)Left axis deviation b)Right axis deviation c)Both LAD nad RAD
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. Write about Hexaxial reference system with diagram.
12. Rotation around the anteroposterior axis of the heart.
13. Rate & Rhythm
14. Orientation of the conventional electrocardiographic leads.
15. Bruce Protocol
16. Contraindications of Treadmill test.
17. Basic action of electrocardiograph.

(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 the ECG manifestation of Right ventricular hypertrophy in detail.
21. Types of ST segment with neat diagrams.

IV. Write Essays on any ONE of the following:

(1 x 20 = 20)

22. What is P wave? Explain about Morphology, axis, duration and amplitude of P Wave and briefly about right and left atrial enlargement.
23. Write the ECG manifestations of Left and Right ventricular hypertrophy due to systolic and diastolic overload in detail.

(S.No.M21798)

