Roll No. | | | | | | | | | | | | **Total No. of Pages : 02**

Total No. of Questions : 11

B.Sc. (Cardiac Care Technology) (Sem.-3)

ELECTROCARDIOGRAPHY (ECG)

Subject Code : BCCT-304-21

M.Code : 92690

Date of Examination : 19-12-22

Time : 3 Hrs. **Max. Marks : 60**

INSTRUCTIONS TO CANDIDATES :

1. **SECTION-A is COMPULSORY consisting of EIGHT questions carrying TWO marks each.**
2. **SECTION-B contains EIGHT questions carrying FOUR marks each and students have to attempt any SIX questions.**
3. **SECTION-C will comprise of two compulsory questions with internal choice in both these questions. Each question carries TEN marks.**

SECTION-A

1. Answer briefly :

a) What is U wave?

b) What are Transducers?

c) How to Calibrate ECG?

d) Differentiate between aortic stenosis based on echo gradients (peak and mean).

e) Define and draw ECG waveform.

f) Classification of atrial septal defect.

g) Define Einthoven's triangle.

h) Define Pressure half time.

SECTION-B

2. Write about 2-D echocardiography.

3. Define M-mode and give the measurement of Cardiac dimensions taken using M-mode.

4. Give a note on pulse oximeter. How to measure oxygen saturation?

5. Which method of ECG lead is best suited for analyzing rhythm abnormalities? What is complete heart block.

6. Define the following terms :

- Rotation of the heart
- Rate and rhythm
- P-R segment.

7. What is Auscultatory gap.

8. Brief discussion on stages of Hypertension.

9. Explain basic principle of ultrasound.

SECTION-C

10. Describe various methods to reduce radiation exposure.

OR

Discuss different types of scanning modes on Medical Ultrasound.

11. Write a note on doppler principle. Write difference between pulse wave doppler and continuous wave doppler?

OR

Describe echocardiographic detection aortic stenosis and constrictive pericarditis.

NOTE : Disclosure of Identity by writing Mobile No. or Marking of passing request on any paper of Answer Sheet will lead to UMC against the Student.