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B.Sc. (Cardiac Care Technology) (Semester – 3rd)

BASIC ELECTROCARDIOGRAPHY

Subject Code: BCCTS1-302

Paper ID: [21132415]

Time: 03 Hours

Maximum Marks: 60

Instruction for candidates:

1. Section A is compulsory. It consists of 10 parts of two marks each.
2. Section B consist of 5 questions of 5 marks each. The student has to attempt any 4 questions out of it.
3. Section C consist of 3 questions of 10 marks each. The student has to attempt any 2 questions.

Section – A

(2 marks each)

Q1 Attempt the following:

- a) Classify ventricular tachycardia.
- b) Characteristic ECG features in sinus bradycardia.
- c) Characteristic ECG features in premature atrial and premature ventricular complexes.
- d) Describe ECG paper.
- e) Differentiate between depolarization and repolarization.
- f) Explain Einthoven's triangle.
- g) Augmented limb leads.
- h) Placement of chest leads.
- i) ECG in Left and right axis deviation.
- j) Classify supraventricular tachycardia.

Section – B

(5 marks each)

- Q2 ECG diagnostic criteria of atrioventricular blocks and its symptoms and treatment.
- Q3 ECG diagnostic criteria of supraventricular tachycardia and its predisposing factors.
- Q4 Describe 12 lead system ECG and lead placement.
- Q5 Explain normal cardiac waveforms.
- Q6 Describe various protocols for stress test.

Section – C

(10 marks each)

- Q7 Describe various steps involved in interpretation of normal ECG. how to calculate rate using various methods.
- Q8 Classify arrhythmias. how to manage a patient with ventricular tachycardia.
- Q9 Describe conduction system of the heart , in detail.