

[AHS 0321]

MARCH 2021

Sub. Code: 1532

(AUGUST 2020 EXAM SESSION)

B.Sc. CARDIAC TECHNOLOGY

SECOND YEAR (Regulation 2014-2015)

**PAPER II – ADVANCED ECG AND TREADMILL EXERCISE STRESS
TESTING AND 24 HOUR AMBULATORY ECG AND BP RECORDING***Q.P. Code : 801532***Time: Three hours****Answer ALL Questions****Maximum: 100 Marks****I. Elaborate on:****(3 x 10 = 30)**

1. Discuss the ECG findings in ventricular tachycardia. How will you differentiate between ventricular tachycardia and supraventricular tachycardia?
2. Discuss the indications, contraindications and precautions while doing treadmill test.
3. Indications for holter, type of arrhythmia which can be detected by holter?

II. Write notes on:**(8 x 5 = 40)**

1. Post MI exercise testing indications and usefulness.
2. Types of Holter Monitoring.
3. Indications for 24 hours BP monitoring and its procedure.
4. Duke Tread mill score.
5. Different types of ST changes and it's their measurement.
6. Sensitivity and specificity of stress test.
7. Discuss about Mobitz type I and II block.
8. ECG features of hypo and hyperkalemia.

III. Short answers on:**(10 x 3 = 30)**

1. List out the causes of low voltage QRS complex.
2. Electrocardiographic features of Tetralogy of fallot.
3. Electrical alternans in electrocardiography.
4. P-pulmonale in electrocardiograph.
5. Usually BP response during exercise. What does accelerated response indicate?
6. Indication for termination of exercise testing.
7. METZ in stress test.
8. MASON LIKAR Modification of 12 lead ECG.
9. Digoxin toxicity.
10. Usefulness of holter in palpitation.
