

THE TAMIL NADU DR. M.G.R. MEDICAL UNIVERSITY

[AHS 0922]

SEPTEMBER 2022

Sub. Code: 2411

(FEBRUARY 2022 & AUGUST 2022 EXAM SESSIONS)

**DIPLOMA IN CARDIAC NON-INVASIVE TECHNOLOGY
SECOND YEAR (Regulations from 2014-2015 & 2018-2019)
PAPER I – BASIC CARDIOVASCULAR INVESTIGATIONS
Q. P. Code: 842411**

Time: Three hours

Maximum : 100 Marks

Answer ALL Questions

I. Elaborate on:

(3 x 10 = 30)

1. Discuss the absolute indications for stopping the TMT test. How will you manage complications during Treadmill testing?
2. Discuss the procedures and precautions of Holter monitor connection.
3. Discuss in detail about the ECG features of myocardial infarction and myocardial ischemia.

II. Write notes on:

(10×5=50)

1. Write about exercise protocols of TMT.
2. Maintenance and care of ECG machine.
3. Right and posterior leads placement. Significance in clinical practice
4. ECG finding in atrial abnormalities.
5. ECG features of AV block.
6. Write about contraindication of TMT.
7. Write about the primary and secondary T Wave changes.
8. Discuss in detail about the ECG features of left bundle branch block.
9. How will you record a 12 lead ECG and a rhythm strip?
10. Discuss outcomes of treadmill test.

III. Short answers on:

(10×2=20)

1. Morphology of ventricular premature beat.
2. Duke treadmill score.
3. Two uses of ambulatory electrocardiography.
4. What is fusion beat and what are the causes?
5. Sub maximal work load in TMT.
6. Rhythm strip and why is it important?
7. Calculate corrected QT interval.
8. What are the causes of ventricular arrhythmias?
9. What is sinus pause and sinus arrhythmia?
10. What is the influence of beta blockers on TMT?
