

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

[AHS 0424]

APRIL 2024

Sub. Code: 1521

B.Sc. CARDIAC TECHNOLOGY

THIRD YEAR – (Regulations 2010-2011, 2014-2015, 2018-2019 & 2020-2021 onwards)

PAPER I – CARDIAC CATHETERIZATION LABORATORY BASICS

Q.P. Code: 801521

Time: Three Hours

Answer ALL Questions

Maximum: 100 Marks

I. Elaborate on: **(3 x 10 = 30)**

1. Right Heart Catheterization and Angioplasty – Indications, Procedures and Catheters.
2. Explain in detail the preparation of Laboratory for cardiac catheterization.
3. Discuss in detail the coronary angiography and the catheters used for it.

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

1. Guide catheters.
2. Oxygen dilution method.
3. Radiation protection.
4. Ventricular assistive devices.
5. Indications for coronary angioplasty.
6. Cardiac output determination.
7. Contrast agents.
8. Connection of catheters in Electrophysiologic study.

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

1. Mention any three angiographic views in coronary angiography.
2. Define Multipurpose catheter.
3. Define Aortogram.
4. Enlist any three uses of Manifold.
5. List any three types of Coronary stents.
6. Enlist any three techniques of Catheter sterilization.
7. Define Image playback.
8. Define Damping.
9. What is RV Pressure Curve?
10. What is the principle of Oximetry?
