

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

[LR 1220]

**DECEMBER 2020
(AUGUST 2020 EXAM SESSION)**

Sub. Code: 1521

**BACHELOR IN CARDIAC TECHNOLOGY
THIRD YEAR – (Regulation from 2010-2011 & 2014-2015)
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. Describe the various methods of Cardiac Output Determination in detail. List their advantages and disadvantages.
2. Describe and illustrate the various views for diagnostic Coronary Angiography.
3. Techniques of Sterilization.

II. Write notes on:

(8 x 5 = 40)

1. Ficks's Principle.
2. Radiation safety in the Cath lab.
3. Ventricularization and Damping.
4. Image Play back.
5. Image intensifier.
6. Oximetry findings in a Patent Ductus Arteriosus.
7. Mean gradient.
8. Manifold – Uses.

III. Short answers on:

(10 x 3 = 30)

1. Drugs used during Trans-radial Coronary Angiography.
2. Spider view.
3. Pulmonary capillary wedge pressure.
4. Artefacts during Coronary Angiography.
5. Views for Left ventricular Angiography.
6. Indications for Coronary Angiography.
7. What are Iodixanol and Iohexol?
8. List three Vascular complications encountered during Cardiac Catheterization procedure.
9. Scatter Radiation.
10. Table movement.
