

**B.Sc. CARDIAC TECHNOLOGY
THIRD YEAR**

PAPER I – CARDIAC CATHETERIZATION LABORATORY BASICS

Q.P. Code: 801521

Time: Three Hours

Maximum: 100 Marks

Answer all questions

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.
