

**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. What is Ficks principle? Describe Shunt detection and calculation.
2. Left ventriculography-indications, contra indications, catheters used and views taken.
3. Preparation of catheterization laboratory for diagnostic coronary angiography.

II. Write notes on:

(8 x 5 = 40)

1. Indications and contra indications for aortic root angiography.
2. Branches of Right coronary artery.
3. Spider view.
4. Types and branches of left anterior descending artery.
5. Indications and contraindications for Left Ventricular angiography.
6. Judkins LEFT diagnostic coronary catheter.
7. Catheter tipped manometer.
8. Damping and ventricularization.

III. Short answers on:

(10 x 3 = 30)

1. Name the diagnostic coronary catheters you know.
2. Non dominant Right coronary artery.
3. Type 3 left anterior descending artery.
4. Name the branches of Right coronary artery.
5. What are the views taken to demonstrate Left circumflex artery.
6. Catheters used for left ventriculography.
7. Manifold – ports and use.
8. Multipurpose catheter.
9. Causes for artefacts.
10. Indications for abdominal aortography.
