

**B.Sc. CARDIAC TECHNOLOGY  
THIRD YEAR  
PAPER II – CARDIAC CATHETERIZATION LABORATORY ADVANCED**

*Q.P. Code : 801522*

**Time: Three hours**

**Maximum: 100 Marks**

**Answer ALL questions**

**I. Elaborate on:**

**(3 x 10 = 30)**

1. Describe the indications for aortic root, arch and abdominal aortogram. Describe the angiographic angulation and catheters that are required. . Briefly enumerate the complications of the procedure.
2. Enumerate the complications of Percutaneous coronary interventions and their management
3. Describe the steps in device closure of ventricular septal defect by different approaches. Enumerate the complications and their management.

**II. Write Notes on:**

**(8 x 5 = 40)**

1. Vascular access for catheterisation in children
2. Enumerate the nonionic contrasts. What are the advantages over ionic contrast?
3. Steps in puncture of interatrial septum
4. What are all the parameters to be checked in pacemaker follow up?
5. Endovascular repair of aortic aneurysm
6. Precautions in doing catheterisation procedures in a cyanotic child
7. Contrast induced nephropathy
8. Distal coronary protection devices

**III. Write Notes on:**

**(10 x 3 = 30)**

1. Hepato clavicular view
2. Angiographic projections for Tetralogy of Fallot
3. Angiographic projections for Patent ductus arteriosus
4. Amplatz coronary guiding catheter
5. Multipurpose catheter
6. Principle behind intra aortic balloon counter pulsation
7. Indications for IABP in Cardiac catheterisation Laboratory
8. Briefly describe the steps in deployment of IVC filter
9. Catheters used in Electrophysiology study
10. Indications for Radiofrequency ablation

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