

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

[AHS 0423]

APRIL 2023

Sub. Code: 1522

B.Sc. CARDIAC TECHNOLOGY

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

PAPER II – CARDIAC CATHETERIZATION LABORATORY ADVANCED

Q.P. Code: 801522

Time: Three Hours

Answer ALL Questions

Maximum: 100 Marks

I. Elaborate on:

(3 x 10 = 30)

1. Describe the structure of Guide wire. Enumerate different types of Guide wires and their uses.
2. Theory of IABP, Indications and Complications.
3. Mention the various types of Contrast. Discuss the advantages and disadvantages of different types of Contrast agents. What precautions can be taken to prevent Contrast Induced Nephropathy?

II. Write notes on:

(8 x 5 = 40)

1. What are all the parameters to be checked in pacemaker follow up?
2. Steps in puncture of Interatrial septum.
3. Acute stent thrombosis.
4. Intravascular ultrasound.
5. Cutting balloons.
6. Coronary perforation.
7. Closure devices for achieving hemostasis.
8. Oximetry in VSD.

III. Short answers on:

(10 x 3 = 30)

1. Angiographic projections for Patent Ductus Arteriosus.
2. Indications for Cardiac Resynchronization therapy.
3. Indications of Renal artery stenting.
4. Self expanding stent.
5. Causes of high impedance during ablation.
6. Indications for IVC filter.
7. Complications of Balloon Mitral Valvuloplasty.
8. Uses of Microcatheter.
9. Catheters used in Electrophysiology.
10. Mention few complications of permanent pace makers.
