

# National Board of Examinations

<b>Question Paper Name :</b>	DrNB Cardio Vascular and Thoracic Surgery Direct 6 years course Part 1 Paper2
<b>Is this Group for Examiner? :</b>	No
<b>Enable Mark as Answered Mark for Review and Clear Response :</b>	Yes

## **Question Number : 1 Question Type : SUBJECTIVE**

Discuss the following:

- Enumerate broad Classification of Antiarrhythmic Agents. [5]
- Amiodarone– Mode of action, dose, indications, side effects. [3]
- Postoperative Pharmacological strategies for Atrial Fibrillation. [2]

## **Question Number : 2 Question Type : SUBJECTIVE**

In suspected Pulmonary Thromboembolism (PTE), discuss:

- Definition, clinical signs and symptoms of PTE. [3]
- Diagnostic ECG features and ICU monitoring data. [3]
- Imaging modalities and outline of management. [4]

## **Question Number : 3 Question Type : SUBJECTIVE**

With respect to Intra-Aortic Balloon Pump (IABP), discuss:

- Brief history of evolution, and basic principle with relation to Cardiac Cycle. [3]
- Triggering modes of IABP and their application. [3]
- Precautions, contraindications and management of complications. [4]

## **Question Number : 4 Question Type : SUBJECTIVE**

Discuss the following:

- a) Surgical anatomy of the Thoracic Duct. [3]
- b) Causes & diagnosis of Chylothorax. [4]
- c) Non-operative management and preparation for surgery in Chylothorax. [3]

**Question Number : 5 Question Type : SUBJECTIVE**

Discuss the following aspects:

- a) Genesis of variations in heart sounds and murmurs in Atrial Septal Defect. [4]
- b) Shunt dynamics and determinants in ASD. [3]
- c) Methods to assess and grade severity of Eisenmengerisation in ASD. [3]

**Question Number : 6 Question Type : SUBJECTIVE**

- a) Draw a circuit of Cardiopulmonary Bypass Circuit assembled for a 70 kg adult for trans-sternotomy ASD closure with preferred cannulae using a membrane oxygenator. [3]
- b) Compare - Membrane Oxygenator vs Bubble Oxygenator. [3]
- c) Deep Hypothermic Circulatory Arrest. [4]

**Question Number : 7 Question Type : SUBJECTIVE**

Discuss in brief:

- a) Schematic representation of mitral regurgitation (MR) and Carpentier's Classification. [4]
- b) Clinical, Radiological and Imaging indicators in assessment of severity of Mitral Regurgitation. [4]
- c) Complications of severe MR in a young Rheumatic female. [2]

**Question Number : 8 Question Type : SUBJECTIVE**

Discuss the following:

- a) Anatomy and Embryology of Coronary Sinus. [4]
- b) Coronary Sinus Cannulation and monitoring in Cardiac Surgery. [3]
- c) Routes of Administration of Blood Cardioplegia. [3]

**Question Number : 9 Question Type : SUBJECTIVE**

- a) Enumerate surgically treatable Cardiothoracic manifestations of Tuberculosis. [4]
- b) CTVS decision-making in Covid era: Vaccines, Anticoagulation, Covid asymptomatics, testing and timing for elective Open Heart Protocol. [6]

**Question Number : 10 Question Type : SUBJECTIVE**

- a) Embryology and development of diaphragm. [4]
- b) Classification of Paediatric Diaphragmatic Hernias. [3]
- c) Hiatal Hernia: Presentation, diagnosis and outline management. [3]