

**M.Ch. – CARDIO VASCULAR AND THORACIC SURGERY**  
**Paper IV – RECENT ADVANCES IN THORACIC AND CARDIO**  
**VASCULAR SURGERY**

*Q.P.Code: 181504*

**Time: Three Hours**

**Maximum: 100 Marks**

**I. Elaborate on:**

**(2 x 15 = 30)**

1. Discuss indications and surgical management of Atrial Fibrillation.
2. Cardiogenic shock – Causes and mainstay therapies.

**II. Write notes on:**

**(10 x 7 = 70)**

1. Implantable Cardioverter Defibrillator.
2. Heparin Alternatives in Cardiopulmonary Bypass.
3. Contraindications to heart transplant.
4. Hypertrophic obstructive cardiomyopathy.
5. Percutaneous transluminal coronary angioplasty (PTCA) – Contraindications.
6. Axial pumps.
7. Coronary flow reserve.
8. Cardiac Computed Tomography in non-coronary surgery.
9. Assessment of Myocardial Viability.
10. Pulmonary thromboendarterectomy.

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