## CARDIOTHORACIC SURGERY

### PAPER – III

- **Time:** 3 hours  
- **Max. Marks:** 100

### Important instructions:
- Attempt all questions in order.
- Each question carries 10 marks.
- Read the question carefully and answer to the point neatly and legibly.
- Do not leave any blank pages between two answers.
- Indicate the question number correctly for the answer in the margin space.
- Answer all the parts of a single question together.
- Start the answer to a question on a fresh page or leave adequate space between two answers.
- Draw table/diagrams/flowcharts wherever appropriate.

### Write short notes on:

1. **Aortic Dissection:**
   - a) Classification.  
   - b) Aetiology.  
   - c) Which single imaging technique would you choose & why?  
   - d) Valve conservation surgery for acute Type-I dissection.

2. **Lung Volume Reduction Surgery:**
   - a) Indications.  
   - b) Patho-physiological basis.  
   - c) Contraindications.  
   - d) Surgical approaches.

3. a) Issues with percutaneous, aortic valve replacement.  
   b) Recent advances in percutaneous mitral valve repair.  
   c) Domiciliary care of prosthetic heart valves.

4. **Pectus Excavatum:**
   - a) Physiological consequences.  
   - b) Aetiology.  
   - c) Surgical techniques.

5. a) Assessment of myocardial viability.  
   b) Assessment of reversibility of pulmonary arterial hypertension.  
   c) Diagnosis of spontaneous oesophageal rupture.

6. a) Recent advances in Robotic technologies.  
   b) Indications of VATS in thoracic surgery.  
   c) Neurological complications following minimally invasive mitral valve surgery.

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P.T.O.
7. Chylothorax:
   a) Aetiology. 3
   b) Biochemical diagnosis of chyle. 2
   c) Indications of surgery 2
   d) Medical management & surgical options/techniques 3

8. a) PARTNER Trial 2.5
    b) SYNTAX Trial 4
    c) FREEDOM Trial 2
    d) COURAGE Trial

9. Empyema thoracis:
   a) Classification 2
   b) Etiopathogenesis 3
   c) Light’s Criteria 3
   d) Recent advances in management of Empyema thoracis. 2

10. Deep vein thrombosis:
    a) Etiology & diagnosis 4
    b) Complications 2
    c) Management 2
    d) Enumerate percutaneous interventions 2

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