

**CARDIO THORACIC SURGERY**

**PAPER-III**

Time: 3 hours  
Max. Marks:100

CTS/J/19/04/III

**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:**

- Indications of single and bilateral lung transplant. 4+6
  - Diagnosis and management of rejection in lung transplantation.
- Pathophysiology of myasthenia gravis. 5+5
  - Classify and discuss surgical treatment of myasthenia gravis and its results.
- Various types of tissue sealants and their uses. 5+5
  - Aminocaproic acid.
- Indications of trans-esophageal echocardiography in cardio-thoracic surgery. 4+3+3
  - Segmental analysis of mitral valve for repair.
  - BUS.
- Basis of stem cell therapy. 4+6
  - Current role of stem cell therapy in cardiac surgery.
- ECMO: 3+3+4

  - Types.
  - Classification.
  - Oxygenator used.
- Discuss role of Heart team in TAVI. 3+3+4
  - TAVI –Indications.
  - Short term and long term result.
- Indications and techniques of sleeve lobectomy. 5+5
  - TNM staging and stage wise treatment options of lung cancer.

**P.T.O.**

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9. a) Etiopathogenesis and classification of aortic aneurysms. 5+5  
b) Role of hybrid procedures in various types of aortic aneurysms.
10. a) FREEDOM trial. 2+4+4  
b) Current status of aortic valve repair.  
c) Anti-arrhythmic drugs.

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