

**CARDIO THORACIC SURGERY**

**PAPER-III**

Time: 3 hours  
Max. Marks:100

CTS/D/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:**

1. a) Indications of cardiac transplantation. 3+7  
b) Diagnosis and management of rejection in cardiac transplantation.
2. a) Classify mediastinal tumours. 5+5  
b) Diagnosis and management of anterior mediastinal tumours.
3. a) Role of cell saver in cardiac surgery. 5+5  
b) Bio-glue.
4. a) Cardiopulmonary bypass in minimally invasive cardiac surgery. 5+5  
b) Complications of peripheral cannulation.
5. Intra-Aortic Balloon Pump: 4+3+3  
a) Indications.  
b) Contraindications.  
c) Mechanism of action.
6. a) Discuss various surgical techniques in heart failure. 5+5  
b) Role of stem cell therapy in heart failure.
7. a) Indications of TAVI. 5+5  
b) Complications of esophagectomy.
8. a) TNM staging and management of esophageal cancers. 5+5  
b) Complication and esophagectomy.
9. a) Classification and etiopathogenesis of aortic dissection. 5+5  
b) Discuss about TEVAR.
10. a) EXCEL trial. 2+4+4  
b) Current status of MAZE procedure.  
c) Anti-failure drugs.

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