

**CARDIOTHORACIC SURGERY**

PAPER – II

CTH/J/16/04/II

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 valve repair: 3+5+2
  - a) Indications
  - b) Various techniques
  - c) Frater's stitch
  
2. Non-coronary beating heart surgery: 5+3+2
  - a) Indications
  - b) Techniques
  - c) Complications
  
3. Tricuspid valve: 2+2+3+3
  - a) Anatomy
  - b) Relation with A-V Node
  - c) Various techniques of repair
  - d) Anatomy in Ebstein's anomaly
  
4. Heart failure: 2+3+3+2
  - a) Classification
  - b) Enumerate non transplant surgical therapies
  - c) Role of mechanical circulatory support
  - d) Types of ECMO
  
5. Atrial fibrillation: 3+2+3+2
  - a) Classification
  - b) Energy sources for ablation
  - c) Surgical techniques
  - d) Results
  
6. Tetralogy of Fallot with absent pulmonary valve: 3+3+4
  - a) Clinical presentations
  - b) Pathology
  - c) Management

**P.T.O.**

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|---|---------|
| 7. Constrictive pericarditis;                           | 2+3+3+2 |
| a) Etiopathology  |         |
| b) Differentiation with restrictive cardiomyopathy      |         |
| c) Surgical approaches                                  |         |
| d) Complications  |         |
| 8. One and half ventricle repair:                       | 5+5     |
| a) Indications  |         |
| b) Surgical results                                     |         |
| 9. Cardiac tumors:                                      | 5+5     |
| a) Cardiac tumours in childhood                         |         |
| b) Familial myxoma complex                              |         |
| 10. Mechanical complications of myocardial infarctions: | 3+3+4   |
| a) Etiopathogenesis                                     |         |
| b) Enumerate various complications                      |         |
| c) Management of mitral regurgitation and its result    |         |

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