

CARDIOTHORACIC SURGERY

PAPER – III

CTH/D/16/04/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. Right upper lobectomy with regards to: 3+4+3
 - a) Surgical anatomy.
 - b) Technique.
 - c) Complications

2. Tracheal repair: 3+2+3+2
 - a) Technique.
 - b) Management of airway.
 - c) Complications.
 - d) Late sequelae.

3.
 - a) Management of Flail chest 2.5x4
 - b) Use of pectoralis major flap in chest wall reconstruction.
 - c) Mediastinitis following sternotomy.
 - d) Use of prosthetic mesh for chest wall reconstructions.

4. Aortic arch replacement: 3+2+3+2
 - a) Techniques.
 - b) Prevention of air embolism.
 - c) Spinal cord protection.
 - d) Endovascular options.

5. Aortic dissection: 2+2+2+2+2
 - a) Presentation.
 - b) Assessment.
 - c) Surgical techniques for type A dissection.
 - d) Complications of surgery.
 - e) Results.

6. Ventricular assist devices: 2+3+2+3
 - a) Total artificial heart.
 - b) HeartMate II.
 - c) Destination therapy.
 - d) Complications of LVADs. **P.T.O.**

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| 7. Meta-analysis: | 2+4+4 |
| a) Definition. | |
| b) Conduct. | |
| c) Limitations. | |
| 8. Human errors in cardiac surgery: | 3+3+4 |
| a) Categories. | |
| b) Causes. | |
| c) Methods of reduction. | |
| 9. a) Active Vs passive follow up | 3+4+3 |
| b) Cross sectional analysis. | |
| c) Bias. | |
| 10. a) Percutaneous aortic valve replacement (TAVI): Indications and techniques. | 5+5 |
| b) Lung transplantation: | |
| i) Requirements for potential donors and recipients; | |
| ii) Prognosis | |
