

CARDIOTHORACIC SURGERY

PAPER – III

CTH/J/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. Minimally invasive cardiac surgery: 2+2+3+3
 - a) Indications.
 - b) Arterial and venous access.
 - c) Aortic clamping techniques.
 - d) De-airing techniques.
2. Thoracic outlet syndrome: 3+2+5
 - a) Diagnosis.
 - b) Indications of surgery.
 - c) Various surgical approaches.
3. Chronic empyema thoracis: 2+3+5
 - a) Treatment options.
 - b) Decortications.
 - c) Management of residual space by various thoracoplasty.
4. Deep vein thrombosis: 4+3+3
 - a) Approach to diagnosis
 - b) Differential diagnosis
 - c) Treatment
5.
 - a) Endovascular techniques in aortic aneurysm management. 4+3+3
 - b) Elephant trunk technique.
 - c) Cerebral protection in aortic arch surgery.
6. Solitary pulmonary nodule: 3+3+4
 - a) Differential diagnosis.
 - b) Approach to diagnosis.
 - c) Management algorithm.

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7. a) PARTNER II A trial. 5+5
b) STICH trial.
8. a) Oesophageal motility disorders diagnosis. 4+3+3
b) Oesophageal manometry.
c) Modified Heller's operation.
9. a) Propensity Score matching: 2+2+3+3
b) Levels of evidence.
c) Risk stratification.
d) 3D Printing.
10. a) Embryological development of diaphragm. 2+2+3+3
b) Types of congenital diaphragmatic hernias.
c) Management of Bochdalek hernia.
d) Postoperative diaphragmatic palsy after open heart surgery.
