

CARDIO THORACIC SURGERY

PAPER-I

CTS/J/18/04/I

Time: 3 hours
Max. Marks:100

- 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 question 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) The embryology of the left superior vena cava. 5+5
b) Implications of left superior vena cava on cardiopulmonary bypass.
2. a) The neurological complications of Cardiopulmonary bypass. 5+5
b) Neuro protective strategies.
3. Aortic valve surgery:
a) Procedures for aortic root enlargement 7+3
b) Patient prosthetic mismatch
4. Intra-aortic Balloon pump:
a) Basic principles 4+3+3
b) Indications and contraindications
c) Advantages and complications
5. a) Tracheal anatomy 4+3+3
b) Surgical consideration for tracheal mobilization.
c) Sleeve resection
6. a) Presentation of a patient with sternal dehiscence following open heart surgery 3+3+4
b) Mediastinitis: Causative organisms
c) Management strategies in mediastinitis.
7. a) Classify various pharmacological agents used in heart failure. 4+3+3
b) Milrinone
c) Adenosine
8. a) Heparin induced thrombocytopaenia and its management. 5+5
b) Physiology of ultra-filtration and indications in open heart surgery.

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| 9. | Lung carcinoma: | 4+3+3 |
| | a) Presentation | |
| | b) Staging of Lung cancer | |
| | c) Management strategies | |
| 10. | Cellular and molecular mechanism of cardiac arrhythmias: | 2+2+3+3 |
| | a) Impulse initiation | |
| | b) Excitation | |
| | c) Repolarization | |
| | d) Cellular coupling | |
