FINAL EXAM
JUNE 2018

NATIONAL BOARD OF EXAMINATIONS

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.

P.T.O.

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

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