

**CARDIO THORACIC SURGERY**

PAPER – II

Time : 3 hours

CTH/D/17/D/04/II

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. Assessment of severity of aortic regurgitation: 5+5
  - a) Echocardiography
  - b) Angiographic
2. In relation to univentricular heart: 4+3+3
  - a) Classify tricuspid atresia.
  - b) Basic principle of Fontan operation.
  - c) Enumerate Ten Commandments for this surgery.
3.
  - a) Enumerate various mechanical complications of myocardial infarction. 4
  - b) Management of VSD. 6
4. Heart failure: Classification, etiology, diagnosis and medical management 3+3+2+2
5. Ruptured sinus of Valsalva: Classification, etiology, symptoms & signs, and management. 2+3+2+3
6. Conduits for CABG: 3+7
  - a) Enumerate various available conduits
  - b) Advantages & disadvantages of radial artery pedicle & skeletonized internal mammary artery.
7. Pacing following open heart surgery: 3+7
  - a) Various modes
  - b) Threshold, sensitivity, output and synchronization in pacing.
8.
  - a) What is endoleak? 4+3+3
  - b) Enumerate its causes
  - c) Management of endoleak
9.
  - a) Draw a diagram of cardiac veins. 6+4
  - b) Applied anatomy of venous drainage of heart.
10. Cardiac tumours: 2+3+5
  - a) Types
  - b) Presentation (signs, symptoms)
  - c) Diagnosis and management

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