

CARDIO THORACIC SURGERY (DIRECT 6 YEARS COURSE) PART - I**PAPER-II**Time: 3 hours
Max. Marks:100

CTS1/J/20/49/II

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. a) Anatomy of coronary venous system. 4+3+3
b) Surgical importance of coronary sinus.
c) Retrograde cardioplegia - technique, advantages and disadvantages.
2. a) Draw normal tracing of central venous pressure. 3+4+3
b) Describe jugular venous pressure in chronic constrictive pericarditis.
c) Describe canon wave.
3. a) Enumerate causes of cyanosis at birth. 5+5
b) Enumerate causes of cyanosis after 6 weeks of birth.
4. a) Enumerate causes of left atrial clot in mitral stenosis. 3+4+3
b) Briefly discuss treatment modalities in such a case.
c) Discuss choice of valve in such a case.
5. a) Mode of action of heparin. 3+3+4
b) Monitoring of heparin during CPB & off pump CABG.
c) Side effect of heparin.
6. Discuss cardiac Tamponade under following headings: 3+4+3
a) Definition and common causes.
b) Clinical diagnosis.
c) Management.
7. Discuss total circulatory arrest under following headings: 2+3+2+3
a) Historical background.
b) Indications and contraindications.
c) Technical precautions during circulatory arrest.
d) Short term and long term complications.

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8. Discuss ruptured sinus of Valsalva under following headings: 2+4+4
a) Etiopathogenesis.
b) Classification.
c) Management.
9. a) Draw a well labelled schematic diagram of Cardiopulmonary Bypass circuit using membrane oxygenator for secundum atrial septal defect with left superior vena cava opening in right atrium in a patient weighing 50 kg. (mention cannula and connection size). 5+5
b) Discuss blood cardioplegia.
10. a) Discuss role of IVUS in coronary angiography in diagnosis of coronary artery diseases. 5+5
b) Briefly discuss FAME trial.
