

**CARDIO THORACIC SURGERY (DIRECT 6 YEARS) PART-I**

PAPER-II

Time: 3 hours  
Max. Marks:100

CTS1/J/19/49/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 tricuspid valve. 4+3+3  
b) Pathophysiology of tricuspid regurgitation.  
c) Indications of tricuspid valve repair.
2. a) Anatomy of thoracic outlet. 4+3+3  
b) Causes of thoracic outlet obstruction.  
c) Role of nerve conduction velocity testing in thoracic outlet syndrome.
3. a) Embryology of thymus. 3+3+4  
b) Role of thymus in pathophysiology of myasthenia gravis.  
c) Enumerate drugs used in management of myasthenia gravis and describe their mechanism of action and indications.
4. a) Embryology of left superior vena cava. 5+5  
b) Definition and diagnosis of unroofed coronary sinus.
5. a) Triangle of Koch. 4+6  
b) Bundle of His in relation with peri-membranous ventricular septal defect.
6. Ductus arteriosus: 3+4+3  
a) Embryology.  
b) Physiology of spontaneous closure.  
c) Duct dependent circulation.
7. a) Causative organisms for infective endocarditis. 3+4+3  
b) Clinical manifestations and diagnostic criteria for infective endocarditis.  
c) Prophylaxis for infective endocarditis.

P.T.O.

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8. a) Basic principles of intra-aortic balloon pump (IABP). 4+2+4  
b) Gas used in IABP.  
c) Indications and contraindications of IABP.
9. a) Factors determining shunt across defect in secundum type of atrial septal defect. 4+3+3  
b) Milrinone.  
c) Digoxin.
10. a) Enumerate clotting factors. 3+4+3  
b) Definition of cyanotic spell and its management.  
c) Draw diagram of coronary venous drainage.

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