

**CARDIO THORACIC SURGERY (PART-II/FINAL)**

**PAPER-I**

Time: 3 hours  
Max. Marks:100

CTVS/D/20/04/I

**Important Instructions:**

- *You are provided with 5 answer sheet booklets. Each individual answer sheet booklet consists of 10 pages excluding the covering jackets.*
- *Answers to all the questions must be attempted within these 5 answer sheet booklets which must be later tagged together at the end of the exam.*
- *No additional supplementary answer sheet booklet will be provided.*
- *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 aortic root with the help of diagram. 5+5  
b) Enumerate various methods to tackle small aortic root.
2. a) Principle of cardioplegia 3+7  
b) List any 3 types of cardioplegia solutions and constituents.
3. a) Anatomy of tricuspid valve. 4+3+3  
b) What are the abnormal changes found in this valve in Ebstein's malformation?  
c) In this condition, how does the abnormal valve affect the cardiac function?
4. a) What are the common post-operative infectious agents following open heart surgery? 3+7  
b) How are these assessed?
5. a) What is the mode of action of heparin? 2+2+6  
b) What are direct thrombin inhibitors (DTI)? Mention the names of a few among them.  
c) Compare DTI with Heparin in terms of clinical use.
6. a) Etiopathogenesis of rheumatic fever 4+3+3  
b) Modified Jone criteria.  
c) Treatment of acute rheumatic fever.
7. a) Pulsus paradoxus. 5+5  
b) What are the ways to differentiate between constrictive pericarditis and restrictive cardiomyopathy?
8. a) Embryology of the conotruncus. 7+3  
b) Name 3 conotruncal anomalies.

**P.T.O.**

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| 9.  | a) Embryology of coronary arteries   | 3+7 |
|     | b) Pathophysiology and management of anomalous left coronary artery from pulmonary artery. |     |
| 10. | a) Classify anti-arrhythmic drugs.   | 3+7 |
|     | b) Name 3 common types of cardiac arrhythmias and discuss their management.                |     |

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