

**CARDIAC ANAESTHESIA****PAPER-I**Time: 3 hours  
Max. Marks:100

CARD.ANS/D/20/75/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 in 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:**

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|-----|---|-----|
| 1.  | a) Levosimendan.  | 5+5 |
|     | b) Auto regulation of coronary blood flow.  |     |
| 2.  | Briefly discuss role of inhalational anaesthetic agents in cardiac surgery. Describe desflurane in detail.  | 10  |
| 3.  | Define low cardiac output syndrome. Discuss its management.   | 10  |
| 4.  | Anesthetic management of adult patent ductus arteriosus repair under general anesthesia.  | 10  |
| 5.  | Pathophysiology of rheumatic aortic stenosis.   | 10  |
| 6.  | Heparin and heparin alternatives.   | 10  |
| 7.  | Role of intra-aortic balloon pump in a patient undergoing coronary artery bypass graft surgery, the technique especially the verification of correct placement and possible complications with its use. | 10  |
| 8.  | Discuss the various scoring currently available to assess cardiac risk status for patient undergoing cardiac surgery during pre-operative assessment.   | 10  |
| 9.  | Physiology of one lung anesthesia.  | 10  |
| 10. | Strategies for reduction of transfusion requirements in cardiac surgery.  | 10  |

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