

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:

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