

**CARDIAC ANAESTHESIA**

**PAPER-III**

Time: 3 hours  
Max. Marks:100

CARD.ANS/D/20/75/III

**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. What is tranexamic acid? What is the role of tranexamic acid in cardiac surgery? 10
2. Pathophysiology of a patient with Tetralogy of Fallot. 10
3. Post-operative pain relieving strategies in pediatric cardiac surgery. 10
4. What is meant by diastolic function of the heart? Draw a labelled diagram of transesophageal echocardiographic changes in the various stages of diastolic dysfunction. 10
5. Heparin induced thrombocytopenia and its management. 10
6. Management strategies in renal dysfunction and renal failure in the perioperative period in a patient undergoing cardiac surgery. 10
7. Vasopressin and its use in cardiac surgery and intensive care. 10
8. Describe the various methods available to measure cardiac output in a non-invasive manner. 10
9. What are point of care viscoelastic tests? How will you interpret them in a bleeding patient who has undergone Bentall procedure? 10
10. Complications of ECMO. 10

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