

**CARDIAC ANAESTHESIA**

**PAPER-II**

Time: 3 hours  
Max. Marks:100

CARD.ANS/D/20/75/II

**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. Etiology, prevention and treatment strategies of atrial fibrillation in a patient undergoing coronary artery bypass graft surgery. 3+3+4
2. Perioperative use of statins and  $\beta$  blockers in heart failure. 10
3. Discuss & differentiate the Alpha stat and pH stat strategies in the cardiac surgical patient. 10
4. What are the physiological consequences of hemodilution when patient is placed on cardiopulmonary bypass? 10
5. Define pulmonary hypertension. Discuss the anesthetic management of a patient with severe pulmonary hypertension undergoing mitral valve surgery. 10
6. A 60-year-old male with acute anterior wall MI thrombolysed 6 hours ago, presented to the emergency room with congestive heart failure. Transthoracic echo revealed ventricular septal defect. Coronary angiography revealed triple vessel disease. He is posted for CABG+VSD closure. Outline the perioperative management of this patient. 10
7. Perioperative management of a case of aortic aneurysm involving ascending aorta and arch vessels. 10
8. Transesophageal echocardiographic (TEE) evaluation of ischemic MR. 10
9. Ventilation strategies in ARDS. 10
10. Anesthetic management for transposition of great arteries. 10

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