

**ANAESTHESIOLOGY**  
**PAPER-I**

TIME: 3 HOURS

ANS/J/19/01/I

MAX. MARKS: 100

**IMPORTANT INSTRUCTIONS**

- This question paper consists of 10 questions divided into Part "A" and part "B", each part containing 5 questions.
- Answers to questions of part A and part B are to be strictly attempted in separate answer sheet(s) and the main + supplementary answer sheet(s) used for each part must be tagged separately.
- Answers to question(s) of Part A attempted in answer sheet(s) of part B or Vice versa shall not be evaluated.
- Answer sheets of Part A and Part B are not to be tagged together.
- Part A and Part B should be mentioned only on the covering page of the respective answer sheets.
- 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:****PART A**

1. a) Anatomy of brachial plexus with diagram. 4+2+4  
b) What are the different approaches for giving brachial plexus block?  
c) Approach of brachial plexus block for a patient listed for shoulder surgery.
2. a) Describe oxygen dissociation curve. Draw a neat diagram. 4+6  
b) Factors affecting oxygen dissociation curve.
3. Various techniques to monitor use of neuromuscular blocking agents during anaesthesia. 10
4. a) Nerve supply of foot with diagram. 5+5  
b) Technique of ankle block.
5. a) Factors determining intracranial pressure (ICP). 4+6  
b) Preoperative preparation and anesthetic management of a patient of extradural haematoma with raised ICP for emergency craniotomy.

**P.T.O**

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**Please read carefully the important instructions mentioned on Page '1'**

- Answers to questions of Part A and part B are to be strictly attempted in separate answer sheets and the main + supplementary answer sheets used for each part must be tagged separately.
- Answers to question(s) of Part A attempted in answer sheets of Part B or vice versa shall not be evaluated.

**PART B**

- |     |   |     |
|-----|---|-----|
| 6.  | a) Classify intravenous anaesthetic agents.   | 3+7 |
|     | b) Compare Thiopentone sodium and Propofol in tabular form.   |     |
| 7.  | a) Anatomy of coronary circulation with diagram.  | 4+6 |
|     | b) Factors determining oxygen demand and supply of myocardium in a patient of coronary artery disease scheduled for laparotomy. |     |
| 8.  | a) What are the coaxial breathing circuits?   | 4+6 |
|     | b) Functional analysis of Bain's Circuit.   |     |
| 9.  | a) Students 't' test.   | 5+5 |
|     | b) Calculation of sample size for research study.   |     |
| 10. | a) Informed consent.  | 5+5 |
|     | b) How will you counsel the father of a brain dead patient lying in an ICU for organ donation?                                  |     |

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