

**ANAESTHESIOLOGY**  
**PAPER-IV**TIME: 3 HOURS  
MAX. MARKS: 100

ANS/D/19/01/IV

**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**

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|--|-------|
| 1. What is hyperalgesia? Briefly describe peripheral mechanisms associated with it. Discuss opioid induced hyperalgesia.   | 2+4+4 |
| 2. Discuss different methods to assess pain in children. What are the different analgesic techniques for a postoperative patient of bilateral knee arthroplasty? | 4+6   |
| 3. Define septic shock. Discuss the latest guidelines in management of sepsis.   | 2+8   |
| 4. a) Humidifiers.<br>b) High anion gap acidosis.  | 5+5   |
| 5. What is quality assurance in anaesthesia? What are the methods used for monitoring and evaluation of quality of anaesthetic procedures?                       | 4+6   |

**P.T.O**