

**ANAESTHESIOLOGY**

**PAPER – IV**

Time : 3 Hours  
Max. Marks : 100

ANS/D/17/01/IV

**IMPORTANT INSTRUCTIONS**

- This question paper consists of 10 questions divided into Part “A” and part ‘B’, each part containing 5 questions.
- Answers to question 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 questions of Part A attempted in answer sheet(s) of part B or Vice versa shall not be evaluated.
- Answer sheet(s) 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) What are the indications of percutaneous dilatational tracheostomy and what are its advantages over surgical tracheostomy? (4+2)+4  
b) What is Trans-nasal Humidified Rapid Insufflation Ventilator Exchange (THRIVE)?
2. a) Enumerate the methods of labour analgesia. 4+3+(2+1)  
b) What is the monitoring required during epidural labor analgesia?  
c) Advantages & disadvantages of fentanyl in central neuraxial block for labour analgesia.
3. a) What is Beer-Lambert law? 2+4+4  
b) Enumerate the limitations of pulse oxymetry.  
c) What is arterial oxygen content (CaO<sub>2</sub>)?
4. a) Pharmacodynamics of dexmedetomidine. 4+3+3  
b) Role of dexmedetomidine in critically ill patients.  
c) Compare dexmedetomidine with clonidine.
5. a) Define anion gap and enumerate the factors which increase the anion gap. (2+3)+5  
b) Enumerate the 5 H's & 5 T's for differential diagnosis during resuscitation.

**P.T.O**