

QP Code: 101101

Reg. No.:.....

**PG Degree Supplementary Examinations in Anaesthesiology (MD)  
January 2024**

**Paper I – History, Basic Sciences & Equipments**

**Time: 3 hrs**

**Max marks:100**

- *Answer all questions to the point neatly and legibly • Do not leave any blank pages between answers • Indicate the question number correctly for the answer in the margin space*
- *Answer all parts of a single question together • Leave sufficient space between answers*
- *Draw table/diagrams/flow charts wherever necessary*

**Essay:**

**(20)**

1. Explain Munroe-Kelly doctrine. What are the pharmacological and non-pharmacological means of reducing intracranial tension in a patient with head injury being ventilated in the ICU. What are the factors which affect the alveolar concentration of an inhalational agent. (5+10+5)

**Short essays:**

**(8x10=80)**

2. Pulmonary artery pressure monitoring.
3. Clinical tests for evaluation of autonomic nervous system dysfunction.
4. Sterilization techniques of anaesthesia equipment.
5. Discuss briefly lipid solubility and its effect on anaesthetic potency. Discuss the pros and cons of using Halothane, Isoflurane and Sevoflurane as an induction agent and as a maintenance agent.
6. Nitrous oxide.
7. Horace Wells.
8. Ropivacaine.
9. Bain's circuit- functional analysis and functional integrity check.

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