

QP Code: 101101

Reg. No.:.....

**PG Degree Regular/Supplementary Examinations in Anaesthesiology
(MD) July 2023**

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. Describe the physiology of neuromuscular junction and what is the mechanism of action of nondepolarizing muscle relaxants. Write about the methods of monitoring neuro-muscular block during surgery

Short essays:

(8x10=80)

2. Explain on August Bier.
3. Describe closed circuit anesthesia and indicate how it differs from other techniques.
4. Describe the principle of (Generic) vaporizer; write about the advantages and disadvantages of TEC vaporizers used in anesthesia practice.
5. Write a note in VENTURI principle and its applications in anaesthetic practice.
6. Enzyme induction.
7. What is Minimum Alveolar Connection (MAC). What are the factors modifying MAC and attainment of MAC.
8. Enumerate the effects of smoking and its anesthetic importance.
9. Enumerate the cardiac reflexes. Describe oculo-cardiac reflex.
