

QP Code: 101101

Reg. No.:.....

**PG Degree Supplementary Examinations in Anaesthesiology (M.D)
April 2026**

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 with the help of a diagram coronary Blood flow. Discuss the physiological determinants of coronary perfusion pressure. Discuss the factors influencing myocardial oxygen-supply demand balance in perioperative period. (10+5+5)

Short essays:

(8x10=80)

2. With the help of a diagram, discuss the pressure-volume relationship in a normal lung.
3. Liver function tests and various scoring systems of liver dysfunction.
4. Scavenging systems in operating room.
5. Second generation supraglottic airway devices.
6. Awareness during Anaesthesia and monitoring depth of Anaesthesia.
7. Explain the concept of volume of distribution of drugs and its relevance.
8. Define Boyle's Law and Charles's Law and the application of these laws in Anaesthesia.
9. Dr. Archie Brain.
