

QP Code:104101

Reg. No.:.....

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

Paper IV – Recent Advances, Intensive Care and Pain Medicine

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. What are the goals of nutritional support in critically ill patients. Describe the daily requirements for proteins, lipids, carbohydrates for a patient with advanced sepsis admitted in the ICU.

Short essays: (8x10=80)

2. Describe the objectives and initial assessment of an adult roadside trauma victim presenting to the emergency department.
3. Enumerate the indications of tracheostomy. Describe different techniques of performing percutaneous dilatational tracheostomy.
4. Chronic Regional Pain Syndrome (CRPS).
5. Describe PEEP, its mechanism of action, uses and complications.
6. Describe the criteria and neurological tests for brainstem death and preparing the patient for organ donation.
7. Point of Care Ultra Sound (POCUS) for a diagnostic evaluation of cardiovascular and respiratory system.
8. Discuss challenges faced by anaesthesiologist while managing a patient with 30% burns of face and upper chest coming for escharotomy.
9. What are the problems with acute exposure to high altitude. Discuss briefly the anaesthetic considerations at high altitude.
