

**Q.P.CODE:112-NR**

*DR NTR UNIVERSITY OF HEALTH SCIENCES:: AP :: VIJAYAWADA*

**M.D. DEGREE EXAMINATION – MAY, 2025**

**ANAESTHESIOLOGY**

Paper-I : Basic Sciences in relation to Anaesthesiology

Time: 3 Hours

Max. Marks:100

Note : Answer all questions

All questions carry equal marks. Draw diagrams wherever necessary

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WRITE SHORT ESSAYS ON THE FOLLOWING:

1. Simulators in anaesthesia
2. Effect of anaesthetic agents on developing brain
3. Oxygen cascade and its implications
4. W T G Morton
5. Tracheobronchial tree
6. Factors affecting coronary circulation
7. Compare and contrast Sevoflurane and Isoflurane
8. Low flow anaesthesia
9. Etomidate
10. Role of kidney in acid base balance

**Q.P.CODE:113-NR**

*DR NTR UNIVERSITY OF HEALTH SCIENCES :: AP :: VIJAYAWADA*  
**M.D. DEGREE EXAMINATION – MAY, 2025**  
**ANAESTHESIOLOGY**

Paper-II : Clinical Sciences in relation to Anaesthesiology  
including recent advances

Time: 3 Hours

Max. Marks:100

Note : Answer all questions

All questions carry equal marks. Draw diagrams wherever necessary

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WRITE SHORT ESSAYS ON THE FOLLOWING:

1. Describe the management of intraoperative pulmonary edema
2. Recent advances in supraglottic airway devices
3. Anaesthetic considerations in a patient with suspected cortical venous thrombosis for caesarean section
4. Anaesthetic concerns in obesity
5. Robotic procedures
6. Anaesthetic concerns and management of anaesthesia for awake craniotomy
7. Anaesthetic considerations and perioperative management of a hypertensive patient on antihypertensive therapy
8. Evaluation and management of a patient with blunt chest trauma
9. Abdominal plane blocks
10. Anaesthesia for micro laryngeal surgeries



**Q.P.CODE:114-NR**

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**M.D. DEGREE EXAMINATION – MAY, 2025**

**ANAESTHESIOLOGY**

Paper-III : Principles and Practice of Anaesthesiology

Time: 3 Hours

Max. Marks:100

Note : Answer all questions

All questions carry equal marks. Draw diagrams wherever necessary

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WRITE SHORT ESSAYS ON THE FOLLOWING:

1. What is frailty and frailty index and discuss the anaesthetic implications
2. Pulse oximetry - Principles and its utilization in the perioperative period
3. Vaporizers
4. Methods of disinfection and sterilization of anaesthesia equipments
5. Surgical checklist
6. Critical incident monitoring and reporting in anaesthesia
7. Approach and management of a patient with respiratory insufficiency in the immediate post operative period
8. Post tonsillectomy bleeding
9. Anaesthetic considerations in a patient with suspected full stomach
10. Utility of USG for central neuraxial block

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**Q.P.CODE:115-NR**

*DR NTR UNIVERSITY OF HEALTH SCIENCES :: AP :: VIJAYAWADA*  
**M.D. DEGREE EXAMINATION – MAY, 2025**  
**ANAESTHESIOLOGY**

Paper-IV : Principles and Practice of Anesthesiology

Time: 3 Hours

Max. Marks:100

Note : Answer all questions

All questions carry equal marks. Draw diagrams wherever necessary

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WRITE SHORT ESSAYS ON THE FOLLOWING:

1. Management of post extubation Laryngospasm
  2. Intraoperative High Airway pressures in a paralysed and ventilated patient - Causes and management
  3. Methods of acute pain relief following abdominal surgery
  4. Front of neck airway
  5. Anaesthetic considerations in patients with obstructive sleep apnea
  6. PDPH Prevalence prevention and treatment
  7. Concerns in a neonate for emergency surgery for duodenal atresia
  8. Acute symptomatic hyponatremia
  9. TIVA
  10. Circle system
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