

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

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

**M.D. DEGREE EXAMINATION – DECEMBER, 2024**

**ANAESTHESIOLOGY**

**Paper-I : Basic Sciences in relation to Anaesthesiology**

**Max. Marks:100**

**Time: 3 Hours**

**Note : Answer all questions**

**All questions carry equal marks. Draw diagrams wherever necessary**

**WRITE SHORT ESSAYS ON THE FOLLOWING:**

1. Discuss the pharmacokinetics of inhalational anesthetics including uptake distribution and elimination
2. Oxygen dissociation curve and its clinical implications
3. NMT monitoring during anesthesia
4. Compare the pharmacology of Vecuronium, rocuronium and atracurium
5. Safety features to prevent delivery of hypoxic mixers in contemporary anaesthesia machines
6. Adjuvants added to local anaesthetics for central neuraxial block
7. Informed consent
8. Current role of Tranexamic acid in the perioperative period
9. Anatomy of the brachial plexus and description of Sono Anatomy for supra clavicular brachial plexus block
10. Non inferiority trial

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

*DR NTR UNIVERSITY OF HEALTH SCIENCES :: AP :: VIJAYAWADA*  
**M.D. DEGREE EXAMINATION – DECEMBER, 2024**  
**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

---

WRITE SHORT ESSAYS ON THE FOLLOWING:

1. Describe the management of unanticipated difficult airway
2. Recent advances in prevention of chronic post surgical pain
3. Anesthetic considerations in a patient with seizure disorders for cesarean section
4. Anesthetic concerns in obesity for laparoscopic cholecystectomy
5. Anesthesia for Trans Oral Robotic Surgery (TORS)
6. Anesthetic concerns for hysteroscopic procedures
7. Diabetics Mellitus-anesthetic considerations and perioperative management of a diabetic on insulin therapy
8. Evaluation and management of a patient with head injury
9. Erector Spinae Block
10. Enhanced Recovery After Surgery (ERAS) protocol for colorectal surgeries

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

*DR NTR UNIVERSITY OF HEALTH SCIENCES :: AP :: VIJAYAWADA*  
M.D. DEGREE EXAMINATION – **DECEMBER, 2024**  
**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

---

WRITE SHORT ESSAYS ON THE FOLLOWING:

1. Diagnosis and management of venous air embolism
2. Preoperative evaluation and anesthetic management of a patient with ischemic heart disease posted for cholecystectomy
3. Cardiac reflexes
4. Perioperative anaesthetic management of patient with bronchogenic carcinoma posted for pneumonectomy
5. Decompression sickness
6. Anaesthetic management of a patient with intracranial space occupying lesion posted for craniotomy
7. Anaesthetic management of a neonate with congenital diaphragmatic hernia posted for repair
8. Penile block
9. Discuss the anaesthetic problems in a patient undergoing lienorenal shunt surgery
10. Brain death

---

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

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

**M.D. DEGREE EXAMINATION – DECEMBER, 2024**

**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

---

WRITE SHORT ESSAYS ON THE FOLLOWING:

1. Management of acute desaturation during anesthesia
2. Intraoperative hypertension - causes and management
3. Capnography with graphic description of normal and abnormal wave forms
4. Supra glottic Airways
5. Anesthetic considerations in patients with CKD
6. High flow nasal oxygen
7. Concerns in a 85 year old patient for emergency surgery for fracture head of femur
8. Principles for fluid management in elective abdominal procedures in pediatric Surgery
9. Non opioid adjuvants in management of post-operative pain
10. Low flow anesthesia

---