

Enrollment No.

University Examination

MD – ANAESTHESIOLOGY

Paper –I

Paper Code: MD-141

(Basic Sciences as applied to Anesthesiology)

[Time: 3:00 Hours]

[Max. Marks: 100]

Note: Attempt all questions. Draw well-labeled diagrams wherever necessary.

Short structured questions

[10 x 10 = 100]

- I. I. Describe the anatomy of the larynx. Features of Recurrent Laryngeal Nerve Palsy. (5+5)
- II. II. What is the Armitage rule? Describe a caudal block. (3+7)
- III. What is FRC? What are the factors affecting FRC and the anesthetic implications of FRC? (2+4+4)
- IV. What is the Monroe-Kellie Doctrine? Describe the intraoperative management of increased intracranial pressure during posterior fossa surgery. (2+8)
- V. Describe the factors affecting myocardial oxygen demand and supply. Describe coronary circulation. (5+5)
- VI. What are second-generation supraglottic devices? Enumerate the tests for proper placement of the proSeal LMA. Differentiate between ProSeal LMA and lgel. (2+4+4)
- VII. What are the factors affecting the height of a spinal block? What is a failed spinal and troubleshooted in a failed spinal? (5+5)
- VIII. Complications of blood transfusion. What is the lethal triad of trauma and its pathophysiology? What is a massive transfusion protocol? (5+3+2)
- IX. Describe various methods to monitor neuromuscular block. (10)
- X. Write short notes on: (2x5)
 - A. Amiodarone
 - B. Propofol versus etomidate
 - C. Lidocaine
 - D. Oxygen content in blood
 - E. Normal Capnograph

[illegible]

University Examination
MD – ANAESTHESIOLOGY
Paper –II
Paper Code: MD-142
(Practice of Anesthesia)

[Time: 3:00 Hours]

[Max. Marks: 100]

Note: Attempt all questions. Draw well-labeled diagrams wherever necessary.

Short structured questions

[10 x 10 = 100]

- I. What is the pathophysiology of diabetic neuropathy? Describe tests of autonomic function. (5+5)
- II. Discuss the challenges in airway management in cervical trauma. (10)
- III. Classify congenital heart diseases. Describe the pathophysiology and anesthetic management of a two-year-old child with Tetralogy of Fallot posted for brain abscess. (2+8)
- IV. Discuss in detail the concerns of the sitting position in posterior fossa surgery (10)
- V. Write short notes on: (2x5)
 - A. TURP Syndrome
 - B. Prone position
- VI. Anesthetic management of a 75-year-old male posted for fracture neck femur (10)
- VII. Anesthetic management of a 60-year-old female with COPD posted for laparoscopic cholecystectomy. (10)
- VIII. Write short notes on: (2x5)
 - A. Anaesthetic implications of chronic renal failure
 - B. Preoxygenation versus paroxygenation
- IX. Write short notes on: (3+3+4)
 - A. SSEP
 - B. Brain Death
 - C. Double Lumen Tube
- X. Discuss physiological changes during pregnancy. Discuss techniques of labour analgesia (10)

Enrollment No.

University Examination
MD – ANAESTHESIOLOGY
Paper –III
Paper Code: MD-143
(Anesthesia in specialties)

[Time: 3:00 Hours]

[Max. Marks: 100]

Note: Attempt all questions. Draw well-labeled diagrams wherever necessary.

1. (Short structured questions) [10 x 10 = 100]

- I. Describe the management of 50 year old kidney transplant patient posted for hysterectomy. (10)
- II. What are the anaesthetic challenges in a patient with a cardiac stent posted for TKR? (10)
- III. Classify tracheoesophageal fistula. What are the challenges in the perioperative management of a term child with tracheoesophageal fistula? (10)
- IV. Write short notes on:
 - A. Hypoxia management in one lung ventilation (5)
 - B. Parturient with 6.0 g% haemoglobin posted for LSCS (5)
- V. Write short notes on:
 - A. Oculocardiac reflex (2)
 - B. Anaesthetic challenges in cleft palate surgery (4)
 - C. Pain management following laparoscopic cholecystectomy (4)
- VI. Enumerate the grading of mitral stenosis. How will you manage a Primigravida in labour with severe mitral stenosis with atrial fibrillation? (2+8)
- VII. Write short notes on:
 - A. Diabetic ketoacidosis (5)
 - B. Management of a case of rebleeding following tonsillectomy (5)
- VIII. Perioperative preparation and management of 60 year old active smoker with COPD posted for laparoscopic hernia surgery (10)
- IX. Explain briefly:
 - A. Cause and management of tet spell in a child with TOF (5)
 - B. TURP syndrome (5)
- X. Describe awake fiberoptic intubation in a 25 year old female with temporomandibular joint ankylosis. Describe post extubation strategy. (5+5)

Enrollment No.

University Examination
MD –ANAESTHESIOLOGY
Paper –IV

Paper Code: MD-144
(Intensive Care Medicine,.....)

[Time: 3:00 Hours]**[Max. Marks: 100]**

Note: Attempt all questions. Draw well-labeled diagrams wherever necessary.

(Short structured questions) [10 x 10 = 100]

- (I) Management of a case of Trigeminal Neuralgia
- (II) Role of ultrasound in anesthesia, ICU and pain
- (III) Artificial intelligence in anesthesia
- (IV) Indication and contraindication Of Renal Replacement Therapy
- (V) Ventilation Strategies of a patient of ARDS
- (VI) Remimazolam
- (VII) Indication of hyperbaric Oxygen therapy
- (VIII) Management of ventricular tachycardia
- (IX) Methods of Blood conservation during surgery
- (X) Thrombo-elastography
