

**2406120101010501**  
**EXAMINATION JANUARY 2025**  
**DOCTOR OF MEDICINE**  
**DOCTOR OF MEDICINE ( ANAESTHESIOLOGY ) PAPER - I -**  
**LEVEL 1**

[Time: As Per Schedule]

[Max. Marks: 100 ]

**Instructions:**

1. Fill up strictly the following details on your answer book
  - a. Name of the Examination : **DOCTOR OF MEDICINE**
  - b. Name of the Subject : **DOCTOR OF MEDICINE ( ANAESTHESIOLOGY ) PAPER - I - LEVEL 1**
  - c. Subject Code No : **2406120101010501**
2. Sketch neat and labelled diagram wherever necessary.
3. Figures to the right indicate full marks of the question.
4. All questions are compulsory.

Seat No:

--	--	--	--	--	--

Student's Signature

**Q.1 Discuss in brief:**

- (1) Describe Oxygen Hemoglobin Dissociation Curve and Enumerate factors producing leftward and rightward shift of curve 10
- (2) Write briefly with the help of diagrams about the flow volume loop in lung spirometry and discuss their interpretation 10

**Q.2 Write briefly on:**

- (1) Classify the antiarrhythmic agents. Discuss the aetiology of perioperative arrhythmias 10
- (2) Discuss the functional analysis of coaxial circuits in anaesthesia practice 10

**Q.3 Write notes on:**

- (1) Define the concept of hypoxic pulmonary vasoconstriction and its anaesthetic implications 10
- (2) Describe the physiological changes in normal pregnancy. Discuss the concept of walking epidural 10

**Q.4 Write about following:**

- (1) Discuss the gas laws in anaesthesia 10
- (2) What is the principle of ultrasound? Enumerate perioperative uses of ultrasound 10

**Q.5 Write short notes on:** 20

- (1) Ropivacaine
- (2) Sir Ivan Magill
- (3) Discharge criteria following day care surgery
- (4) Principles of pulse oximetry

\*\*\*\*\*END\*\*\*\*\*

**2406120101010502**  
**EXAMINATION JANUARY 2025**  
**DOCTOR OF MEDICINE**  
**DOCTOR OF MEDICINE ( ANAESTHESIOLOGY ) PAPER - II -**  
**LEVEL 1**

[Time: As Per Schedule]

[Max. Marks: 100]

**Instructions:**

1. Fill up strictly the following details on your answer book
  - a. Name of the Examination : **DOCTOR OF MEDICINE**
  - b. Name of the Subject : **DOCTOR OF MEDICINE ( ANAESTHESIOLOGY ) PAPER - II - LEVEL 1**
  - c. Subject Code No : **2406120101010502**
2. Sketch neat and labelled diagram wherever necessary.
3. Figures to the right indicate full marks of the question.
4. All questions are compulsory.

Seat No:

--	--	--	--	--	--

Student's Signature

**Q.1 Discuss in brief:**

- (1) Define and classify pregnancy induced hypertension. Discuss the anaesthetic considerations of 30 year old female patient with severe preeclamsia with 35 weeks pregnancy for LSCS. 10
- (2) Describe anesthetic management of a 12 year old child on full stomach with perforated eye injury 10

**Q.2 Write briefly on:**

- (1) Describe pathophysiology and management of anaphylactoid reactions under anesthesia 10
- (2) Write briefly about OSA, apnea hypopnea index (AHI), STOP-Bang Questionnaire and its anesthetic implications. 10

**Q.3 Write notes on:**

- (1) Describe pathophysiology of obstructive jaundice and preoperative preparation 10

- (2) Discuss the preoperative evaluation of autonomic dysfunction and the anaesthetic implications of autonomic neuropathy in a diabetic patient posted for surgery. **10**

**Q.4 Write about following:**

- (1) Management of controlled hypotension for FESS surgery **10**  
(2) Describe the anesthetic concerns for regional anesthesia in a patient on anticoagulants **10**

**Q.5 Write short notes on:** **20**

- (1) Dexmedetomidine in pediatric anaesthesia  
(2) Hypothyroidism: Anaesthesia challenges  
(3) Goal directed fluid therapy  
(4) Lignocaine toxicity

\*\*\*\*\*END\*\*\*\*\*

**2406120101010503**  
**EXAMINATION JANUARY 2025**  
**DOCTOR OF MEDICINE**  
**DOCTOR OF MEDICINE ( ANAESTHESIOLOGY ) PAPER - III -**  
**LEVEL 1**

[Time: As Per Schedule]

[Max. Marks: 100 ]

**Instructions:**

1. Fill up strictly the following details on your answer book
  - a. Name of the Examination : **DOCTOR OF MEDICINE**
  - b. Name of the Subject : **DOCTOR OF MEDICINE ( ANAESTHESIOLOGY ) PAPER - III - LEVEL 1**
  - c. Subject Code No : **2406120101010503**
2. Sketch neat and labelled diagram wherever necessary.
3. Figures to the right indicate full marks of the question.
4. All questions are compulsory.

Seat No:

--	--	--	--	--	--

Student's Signature

**Q.1 Discuss in brief:**

- 1) Preoperative evaluation and anaesthetic plan in a 2 yr old child with foreign body bronchus **10**
- 2) Pathophysiology of obstructive sleep apnea and its anaesthetic implications **10**

**Q.2 Write briefly on:**

- 1) CICO (Cannot Intubate Cannot Oxygenate) in OT **10**
- 2) Caudal block in pediatric anaesthesia **10**

**Q.3 Write notes on:**

- 1) WHO step up protocol for chronic pain management **10**
- 2) Pathophysiology of chronic renal failure and its anaesthetic implication **10**

**Q.4 Write about following:**

- 1) Brain death declaration 10
- 2) Anaesthetic considerations in a diabetic patient posted for lower limb surgery 10

**Q.5 Write short notes on:**

**20**

- 1) Airway blocks for awake fiberoptic intubation
- 2) Compression only life support (COLS) in management of cardiac arrest
- 3) Fresh frozen plasma
- 4) Different regimes of magnesium sulfate for eclampsia and pre-eclampsia

\*\*\*\*\*END\*\*\*\*\*

**2406120101010504**  
**EXAMINATION JANUARY 2025**  
**DOCTOR OF MEDICINE**  
**DOCTOR OF MEDICINE ( ANAESTHESIOLOGY ) PAPER - IV -**  
**LEVEL 1**

[Time: As Per Schedule]

[Max. Marks: 100]

**Instructions:**

1. Fill up strictly the following details on your answer book .
  - a. Name of the Examination : **DOCOTOR OF MEDICINE**
  - b. Name of the Subject : **DOCTOR OF MEDICINE ( ANAESTHESIOLOGY ) PAPER - IV - LEVEL 1**
  - c. Subject Code No : **2406120101010504**
2. Sketch neat and labelled diagram wherever necessary.
3. Figures to the right indicate full marks of the question.
4. All questions are compulsory.

Seat No:

--	--	--	--	--	--

Student's Signature

**Q.1 Discuss in brief:**

- 1) What are the various lung protective strategies in ARDS? Describe the role of ECMO. 10
- 2) Anaesthesia for robotic surgery 10

**Q.2 Write briefly on:**

- (1) How will you evaluate a case of low backache and describe the interventional techniques used for the relief 10
- (2) Role of anaesthesiologist in palliative care 10

**Q.3 Write notes on:**

- (1) Perioperative blood conservation techniques 10
- (2) Discuss the concept, advantages and disadvantages of low flow anaesthesia 10

**Q.4 Write about following:**

- (1) Environmental impact of anaesthetic agents 10
- (2) Sugammadex- mechanism of action, indications, relative contraindications and doses in different clinical scenario 10

**Q.5 Write short notes on:** 20

- (1) Quality assurance in anaesthesia
- (2) New generation supraglottic airway devices
- (3) Transdermal drug delivery system: mechanism and limitations
- (4) ERAS Protocol

\*\*\*\*\*END\*\*\*\*\*