

POST GRADUATE EXAMINATION, JANUARY-2025**MD ANAESTHESIOLOGY
(PAPER ONE)****[Time allotted: Three hours]****[Max Marks: 100]**

Note: Attempt all questions
Illustrate with suitable diagrams.

- Q. 1.** Discuss the pulmonary function tests and their relevance in anesthetic practice. (20)
- Q. 2.** Classify intravenous anesthetic agents. Discuss in detail about the pharmacodynamics & pharmacokinetics of Propofol and its use in TIVA. (20)
- Q. 3. Describe briefly:** (3 x 10 = 30)
- a. Draw a neat diagram of brachial plexus & enumerate complications of infraclavicular block.
 - b. Describe the oxygen dissociation curve & factors affecting its right and left shift.
 - c. Draw schematic diagrams of various types of Mapleson circuits. Describe how you will check integrity of Bain's circuit
- Q. 4. Write short notes on:** (5 x 6 = 30)
- a. Venturi principle.
 - b. Oculo cardiac reflex
 - c. Sir Ivan Magill
 - d. Pin Index System
 - e. I Gel

X

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**MD ANAESTHESIOLOGY
(PAPER TWO)**

[Time allotted: Three hours]

[Max Marks: 100]

Note: Attempt all questions
Illustrate with suitable diagrams.

- Q. 1.** Discuss anesthetic management and problems faced in a 5 year old child posted for posterior fossa surgery (20)
- Q. 2.** Discuss anesthetic management of a morbidly obese 45yr male patient of 120 kg wt. for laparoscopic cholecystectomy. (20)
- Q. 3. Describe briefly:** (3 x 10 = 30)
- Depth of anesthesia monitoring
 - Ventilator Associated Pneumonia
 - Paravertebral block
- Q. 4. Write short notes on:** (5 x 6 = 30)
- V/Q mismatch
 - Transdermal drug delivery system
 - DVT
 - Hyperkalemia
 - Central anticholinergic syndrome

X

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**MD ANAESTHESIOLOGY
(PAPER THREE)**

[Time allotted: Three hours]

[Max Marks: 100]

Note: Attempt all questions
Illustrate with suitable diagrams.

Q. 1. Enumerate general principles of anesthesia outside operating room. Briefly outline the anesthetic plan for 2 yr old child with hydrocephalus for MRI. **(20)**

Q. 2. Define sepsis, SIRS, septic shock. Discuss the Surviving Sepsis Campaign new Guidelines. **(20)**

Q. 3. Describe briefly: **(3 x 10 = 30)**

- a. Thyroid storm
- b. Multimodal Analgesia
- c. End of life Care

Q. 4. Write short notes on: **(5 x 6 = 30)**

- a. Remifentanyl Vs Fentanyl
- b. Acute v/s chronic pain.
- c. Ramsay sedation score
- d. Ultrasound & the Lung
- e. HFN (High Flow Nasal oxygen therapy)

X

POST GRADUATE EXAMINATION, JANUARY-2025

**MD ANAESTHESIOLOGY
(PAPER FOUR)**

[Time allotted: Three hours]

[Max Marks: 100]

Note: Attempt all questions
Illustrate with suitable diagrams.

Q. 1. Discuss Difficult Airway Algorithm for anticipated difficult intubation in adults. (20)

Q. 2. Discuss latest AHA guidelines for BLS and CPR in pregnancy. (20)

Q. 3. Describe briefly: (3 x 10 = 30)

- a. Sugammadex
- b. Cryoprecipitate
- c. Auto PEEP

Q. 4. Write short notes on: (5 x 6 = 30)

- a. Extra corporeal membrane oxygenation (ECMO)
- b. Informed consent
- c. Postoperative nausea vomiting
- d. ISA recent Fasting guidelines
- e. ERAS

X