

**POST GRADUATE EXAMINATION, MAY- 2020**

**MD ANAESTHESIOLOGY  
(PAPER ONE)**

**BASIC SCIENCES**

**[Time allotted: Three hours]**

**[Max Marks: 100]**

---

**Note:** Attempt all questions  
Illustrate with suitable diagrams.

**Q. 1.** Describe the anatomy of neuromuscular junction and the mechanism of action of depolarizing muscle relaxants. **(20)**

**Q. 2.** Discuss the components of safety features in anaesthesia work station. **(20)**

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

- a. Proseal LMA
- b. Venturi principle in anaesthesia
- c. Patient control analgesia

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

- a. Infection control related to anaesthesia
- b. Contents of epidural space
- c. Desflurane vaporizer
- d. Auto PEEP
- e. Glasgow Coma Scale

---

X

**POST GRADUATE EXAMINATION, MAY- 2020**

**MD ANAESTHESIOLOGY  
(PAPER TWO)**

**CLINICAL ANAESTHESIA**

**[Time allotted: Three hours]**

**[Max Marks: 100]**

**Note:** Attempt all questions  
Illustrate with suitable diagrams.

**Q. 1.** A 50 year old female presents with huge midline neck swelling. How will you evaluate and investigate such a patient? Describe the perioperative anaesthetic consideration and management. **(20)**

**Q. 2.** Describe the pain pathway in first and second stage of labor. Enumerate and describe modalities of labor analgesia. **(20)**

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

- a. TURP syndrome
- b. Bispectral index monitoring
- c. Induced hypotension

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

- a. Cardioversion
- b. Thromboelastography
- c. Paracetamol
- d. AMBU
- e. PONV

---

X

**POST GRADUATE EXAMINATION, MAY- 2020**

**MD ANAESTHESIOLOGY  
(PAPER THREE)**

**APPLIED ANAESTHESIA IN RELATION TO CASE MANAGEMENT**

**[Time allotted: Three hours]**

**[Max Marks: 100]**

---

**Note:** Attempt all questions  
Illustrate with suitable diagrams.

**Q. 1.** 36 weeks primigravida admitted with history of seizures. Discuss the anesthetic considerations and management for emergency LSCS. **(20)**

**Q. 2.** Discuss anesthetic management of newborn posted for meningomyelocele. **(20)**

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

- a. Surviving sepsis guidelines
- b. Newer modes of ventilation
- c. Pain management after knee arthroscopy

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

- a. APACHE score
- b. Role of capnography in CPR
- c. Brain death criteria
- d. Neuromodulation
- e. Treatment of hypernatremia

---

X

**POST GRADUATE EXAMINATION, MAY- 2020**

**MD ANAESTHESIOLOGY  
(PAPER FOUR)**

**RECENT ADVANCES**

**[Time allotted: Three hours]**

**[Max Marks: 100]**

**Note:** Attempt all questions  
Illustrate with suitable diagrams.

**Q. 1.** Perioperative fluid therapy: Current concept. Briefly describe perioperative issues affecting fluid management and goals of fluid replacement. **(20)**

**Q. 2.** A 38 year old patient end stage renal disease on maintenance haemodialysis is scheduled for renal transplant. Discuss the pre-anaesthetic evaluation, preparation and choice of technique with reason for choice of technique. **(20)**

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

- a. Implantable pain therapy devices for chronic and cancer pain management
- b. ARDS: Problems and concepts during mechanical ventilation
- c. Newer modes of opioid delivery

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

- a. Buprenorphine transdermal system
- b. Defibrillation principle and sequence during CPR
- c. Newer airway devices
- d. Role of nitrous oxide in modern day anaesthesia
- e. Extracorporeal membrane oxygenator (ECMO)

---

X