

**POST GRADUATE EXAMINATION, APRIL/MAY-2022**

**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 larynx and its innervations. What are the differences between neonatal and adult larynx. **(20)**

**Q. 2.** Describe the physiology of neuromuscular transmission. Discuss the methods of monitoring neuromuscular block. **(20)**

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

- a. Carbon dioxide carriage in blood and effects of hypercarbia.
- b. Role of kidney in acid base balance.
- c. Different types of second generation LMAs.

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

- a. Horace Wells
- b. Enzyme induction – its role in anaesthesia
- c. Spinal opioid receptors
- d. Low flow anaesthesia
- e. IVRA

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**POST GRADUATE EXAMINATION, APRIL/MAY-2022**

**MD ANAESTHESIOLOGY  
(PAPER TWO)**

**CLINICAL ANAESTHESIA**

**[Time allotted: Three hours]**

**[Max Marks: 100]**

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

**Q. 1.** Discuss the physiological changes due to pneumoperitoneum in laproscopic surgeries. List the intraoperative complications. **(20)**

**Q. 2.** Discuss the preoperative evaluation, preparation and anesthetic management of an 80 year old male posted for total hip replacement. **(20)**

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

- a. Aspiration prophylaxis in obstetrics.
- b. Methods of postoperative pain relief in pediatric patients.
- c. Causes of pulmonary edema in intraoperative and immediate postoperative period.

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

- a. Malignant hyperpyrexia
- b. Oxygen flux
- c. Magnesium toxicity
- d. Blood conservation strategies
- e. Erector spinae block

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**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.** Discuss anaesthetic management of a 70 year old male with a drug eluting stent placed 2 years ago following MI, scheduled for transurethral resection of prostate. **(20)**

**Q. 2.** Discuss anaesthetic implications and perioperative management of a 35 year old male patient (recipient) posted for renal transplant surgery. **(20)**

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

- a. Problems in post fossa craniotomy
- b. Surviving sepsis guidelines.
- c. Causes of delayed recovery after anaesthesia

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

- a. Venous air embolism
- b. POCUS
- c. Alpha 2 agonists
- d. Diabetic ketoacidosis
- e. Golden hour in trauma

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**POST GRADUATE EXAMINATION, APRIL/MAY-2022**

**MD ANAESTHESIOLOGY**

**(PAPER FOUR)**

**RECENT ADVANCES**

**[Time allotted: Three hours]**

**[Max Marks: 100]**

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

**Q. 1.** Discuss anaesthetic considerations and postoperative problems in patients undergoing bariatric surgery. **(20)**

**Q. 2.** Discuss the anaesthetic implications and concerns in covid positive patients posted for surgery. **(20)**

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

- a. Newer modes of ventilation
- b. Video laryngoscopes
- c. Preparation of operation theatre for Covid -19 patient

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

- a. Role of TEE in anaesthesia.
- b. Xenon
- c. Parenteral nutrition in ICU
- d. Paraoxygenation
- e. Basic life support guidelines 2020

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