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**MANIPAL ACADEMY OF HIGHER EDUCATION**  
**MD (ANAESTHESIOLOGY) DEGREE EXAMINATION – OCTOBER 2022**  
**PAPER I**

Monday, October 03, 2022

Time: 14:00 – 17:00 Hrs.

Max. Marks: 100

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✍ **Answer ALL the questions.**

✍ **Essay Questions:**

1. Describe the anatomy of larynx and its nerve supply with labelled diagram. Describe with the help of diagrams the types of vocal cord palsies.

(15 marks)

2. Discuss the various factors that affect the uptake and distribution of inhalation anaesthetics.

(15 marks)

3. **Write Short notes on:**

3A. Dexmedetomidine - and its clinical uses

3B. Safety features of anaesthesia machine

3C. Oxygen cascade

3D. Pulmonary function tests

3E. Jackson Ree's circuit

3F. Intubating laryngeal mask airway

3G. Anatomy and performance of deep cervical plexus block

3H. Thermoregulation during general and spinal anaesthesia

3I. Remifentanyl - chemical composition, indications, contraindications and complications

3J. Sugammadex

(7 marks × 10 = 70 marks)



**MANIPAL ACADEMY OF HIGHER EDUCATION**  
**MD (ANAESTHESIOLOGY) DEGREE EXAMINATION – OCTOBER 2022**  
**PAPER III**

Thursday, October 06, 2022

Time: 14:00 – 17:00 Hrs.

Max. Marks: 100

✍ **Answer to the point as padding of answers will not fetch extra marks**

✍ **Illustrate your answer with diagrams where appropriate**

✍ **Essay Questions:**

1. Describe the anaesthetic management of a patient posted for excision of an infrarenal aortic aneurysm and graft insertion.

(15 marks)

2. Describe the pre-anaesthetic evaluation, preparation and plan of anaesthesia for a 70-year old man with COPD posted for open reduction and internal fixation of both bones forearm.

(15 marks)

3. **Write short notes:**

3A. Cardioplegic solutions

3B. Aetiology, prevention and management of retinopathy of newborn

3C. Electrolyte imbalance in congenital hypertrophic pyloric stenosis

3D. Management of TURP syndrome

3E. Methods of reducing intracranial pressure

3F. Complications of bone cement

3G. Gorlin's formula and its importance to anaesthesia

3H. Preoperative evaluation in an infant with cleft lip and palate

3I. Informed consent

3J. Discharge criteria for a patient posted for day care procedure

(7 marks × 10 = 70 marks)



**MANIPAL ACADEMY OF HIGHER EDUCATION**  
**MD (ANAESTHESIOLOGY) DEGREE EXAMINATION – OCTOBER 2022**

**PAPER IV**

Friday, October 07, 2022

Time: 14:00 – 17:00 Hrs.

Max. Marks: 100

✍ **Answer ALL the questions.**

✍ **Essay Questions:**

1. A 25 year old pregnant patient was admitted to emergency department. She is in ventricular fibrillation. How will you manage the case? Describe in brief the post resuscitation care.  
(15 marks)
  
2. What is triage? Explain the initial assessment and resuscitation to be done on a road traffic accident patient with suspected blunt trauma abdomen and cervical spine fracture. What is manual inline stabilization?  
(15 Marks)

3. **Write Short Notes on:**

- 3A. Describe extra-Corporeal Membrane Oxygenator (ECMO).
- 3B. Explain your technique of airway management in a patient with stridor due to periglottic tumor.
- 3C. Classify various pharmacological agents for chronic pain relief.
- 3D. Intravenous alimentation in intensive care unit
- 3E. What are the recent guidelines in managing a case of septic shock in intensive care unit?
- 3F. Differentiate between parametric and non-parametric tests for statistical significance.
- 3G. Explain coeliac plexus block.
- 3H. Explain briefly the uses of ultrasound in regional anesthesia.
- 3I. Explain the technique and complications of percutaneous tracheostomy.
- 3J. What are the adjunctive therapies for ARDS?

(7 marks × 10 = 70 marks)

