

**MANIPAL ACADEMY OF HIGHER EDUCATION****PG DIPLOMA IN ANAESTHESIOLOGY (DA) EXAMINATION – OCTOBER 2022****PAPER I**

Monday, October 03, 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.**

1. Describe the anatomical differences between adult and infant airway and its anaesthetic implications. Write a brief note on Mallampati classification defined by Samsoon and Young, and its relevance in airway assessment.

(15 marks)

2. Outline the principles of central venous pressure monitoring. Enumerate the indications and complications. Why is right sided internal jugular vein cannulation preferred over left side?

(15 marks)

3. **Write briefly on:**

- 3A. Explain the terms first order kinetics and zero order kinetics with examples.  
3B. Factors regulating arterial blood pressure  
3C. Sugammadex  
3D. Liver function tests  
3E. Factors affecting foetoplacental transfer of anaesthetic drugs  
3F. Sciatic nerve block  
3G. Diagnosis of prerenal failure  
3H. Humidifiers  
3I. Oxygen dissociation curve and factors affecting it  
3J. Informed consent

(7 marks × 10 = 70 marks)



**MANIPAL ACADEMY OF HIGHER EDUCATION****PG DIPLOMA IN ANAESTHESIOLOGY (DA) EXAMINATION – OCTOBER 2022****PAPER II**

Tuesday, October 04, 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.**

1. Write the preoperative evaluation and anaesthetic management of a 50 year old male with pituitary adenoma for excision by trans-sphenoidal route.

(15 marks)

2. Classify congenital heart disease. Write the perioperative management of a 2-year old child with Tetralogy of Fallot posted for Blalock-Taussig (BT) shunt procedure.

(15 marks)

3. **Write briefly on:**

3A. Hepatorenal syndrome

3B. Postdural puncture headache

3C. Awareness during anaesthesia

3D. Paravertebral block

3E. Oculocardiac reflex

3F. Intraoperative bronchospasm

3G. Anaesthesia for intrauterine foetal surgery

3H. Myocardial protection during cardiopulmonary bypass

3I. Risk factors, clinical presentation and management of fat embolism

3J. Negative pressure pulmonary oedema

(7 marks × 10 = 70 marks)



**MANIPAL ACADEMY OF HIGHER EDUCATION**  
**PG DIPLOMA IN ANAESTHESIOLOGY (DA) 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.**

1. Describe the anaesthetic management of a 85 year old man scheduled for repair of obstructed inguinal hernia.  

(15 marks)
2. Describe the management of a 25 year old admitted in the casualty with h/o of road traffic accident. On examination, the patient is tachpnoeic, pale, with a blood pressure of 80/50 mm Hg and pulse rate of 140/min. Chest x-ray reveals fracture of lower ribs.  

(15 marks)
3. **Write short notes on:**
  - 3A. Pacemakers and anaesthetic implications
  - 3B. Criteria for weaning from mechanical ventilation
  - 3C. Adenosine
  - 3D. Management of bradyarrhythmias
  - 3E. Vasopressin
  - 3F. Current definition of sepsis
  - 3G. Dexmedetomidine
  - 3H. Phantom limb
  - 3I. Methods of pain relief after orchidopexy in children
  - 3J. Discharge criteria after day care surgery

(7 marks × 10 = 70 marks)

