

MANIPAL UNIVERSITY**PG DIPLOMA IN ANAESTHESIOLOGY (DA) EXAMINATION – APRIL 2016****SUBJECT: PAPER I: BASIC SCIENCES AS APPLIED TO ANAESTHESIOLOGY: ANATOMY, PHYSIOLOGY, PHARMACOLOGY AND BIOCHEMISTRY, ETHICS, QUALITY ASSURANCE, MEDICOLEGAL ASPECTS**

Monday, April 18, 2016

Time: 14:00 – 17:00 Hrs.

Max. Marks: 100

1. Define the term Hypoxic Pulmonary Vasoconstriction and describe the distribution of blood flow in the lung in relation with and without gravity.
(15 marks)
2. Describe the pharmacological properties and clinical uses of Propofol.
(15 marks)
3. **Write short notes on:**
 - 3A. Gas laws in Anesthesia
 - 3B. Inguinal Block
 - 3C. Sugammadex
 - 3D. Ethical issues in DNR patients
 - 3E. Double Bohr Effect
 - 3F. Remifentanyl
 - 3G. Countercurrent Multiplier system
 - 3H. Halothane Hepatitis
 - 3I. Mainstream V/S Sidestreaming in Capnography
 - 3J. Thyroid Function Tests

(7 marks × 10 = 70 marks)



MANIPAL UNIVERSITY

PG DIPLOMA IN ANAESTHESIOLOGY (DA) EXAMINATION – APRIL 2016

SUBJECT: PAPER II: PRINCIPLES AND TECHNIQUES OF ANAESTHESIA
INCLUDING REGIONAL ANAESTHESIA

Tuesday, April 19, 2016

Time: 14:00 – 17:00 Hrs.

Max. Marks: 100

1. 2 yr old boy weighing 15kg is to undergo surgery for bilateral inguinal hernia under general anaesthesia. Describe the various option available for providing intra operative and post operative analgesia. Outline the relative advantages and disadvantages of each technique.
(15 marks)
2. A 32 yr old primi gravida at 34 weeks of gestation presents with ante partum haemorrhage caused by placenta Previa. She is pale and anxious, with a heart rate of 140 beats/min and blood pressure of 90/70mm of Hg. Discuss the preanaesthetic evaluation, preparation, anaesthetic management and post operative care of this patient for emergency caesarean section.
(15 marks)
3. **Short answer questions:**
 - 3A. Describe ankle block with diagram
 - 3B. Controlled Hypotension
 - 3C. Preoperative evaluation of a patient undergoing pneumonectomy
 - 3D. Intra aortic balloon pump
 - 3E. Patho physiology of ARDS
 - 3F. Describe the various methods to reduce ICP during surgery
 - 3G. Anaesthetic considerations in Parkinsonism patients
 - 3H. Thyrotoxic Crisis
 - 3I. Intra operative bronchospasm
 - 3J. Post Dural puncture headache

(7 marks × 10 = 70 marks)



MANIPAL UNIVERSITY**PG DIPLOMA IN ANAESTHESIOLOGY (DA) EXAMINATION – APRIL 2016****SUBJECT: PAPER III: ANAESTHESIA IN RELATION TO ASSOCIATED SYSTEMIC DISEASES, INTENSIVE CARE MEDICINE, PAIN MEDICINE**

Wednesday, April 20, 2016

Time: 14:00 – 17:00 Hrs.

Max. Marks: 100

Answer ALL questions.

1. Discuss the preoperative evaluation and preparation of 25 year old man with obstructive sleep apnea (OSA) scheduled for laparotomy.

(15 marks)

2. What do you mean by the 'golden hour' in trauma? Discuss the role of anaesthesiologist in resuscitation of trauma patients.

(15 marks)

3. **Short answer questions:**

3A. Modern trends in obstetric analgesia

3B. Blood transfusion and related disease transmission

3C. Phantom limb-pain

3D. Hepatitis B and anaesthesiologists

3E. Non-invasive ventilation

3F. Anaesthesia for MRI

3G. Occupational Hazards in operating room

3H. Hospice care

3I. Recent advances in intra-operative pediatric fluid management

3J. Role of vasopressors in septic shock

(7 marks × 10 = 70 marks)

