

MANIPAL UNIVERSITY

MD (ANAESTHESIOLOGY) DEGREE EXAMINATION – APRIL 2014

SUBJECT: PAPER I: BASIC SCIENCES AS APPLIED TO ANAESTHESIOLOGY

Tuesday, April 01, 2014

Time: 14:00 – 17:00 Hrs.

Max. Marks: 100

✍ **Answer ALL the questions.**

✍ **Long Essays.**

1. Describe the anatomy of larynx and its nerve supply with labelled diagram. Write in brief about various nerve palsies.

(15 marks)

2. Describe the anatomy of carotid triangle with diagram. Describe the technique of right Internal jugular vein cannulation and its uses in anaesthesia.

(15 marks)

3. **Write short notes on :**

3A. MAC and it's relevance to anaesthesia

3B. Remifentanyl

3C. Pulmonary function tests

3D. Dexmedetomidine and it's Clinical uses

3E. Differences between elimination and clearance of intravenous drugs

3F. Physiological buffer systems

3G. Anatomy of epidural space

3H. Beer Lambert Law

3I. Jackson-Ree's circuit

3J. Coronary steal

(7×10 = 70 marks)



MANIPAL UNIVERSITY

MD (ANAESTHESIOLOGY) DEGREE EXAMINATION – APRIL 2014
SUBJECT: PAPER II: ANAESTHESIA IN RELATION TO ASSOCIATE SYSTEMIC
DISEASES

Wednesday, April 02, 2014

Time: 14:00 – 17:00 Hrs.

Max. Marks: 100

✍ **Answer ALL the questions.**

✍ **Long Essays.**

1. Describe how will you organise a set up for neonatal resuscitation in the operating room with special emphasis on essential equipment's and drugs.

(15 marks)

2. 50 years old man is scheduled for incision and drainage of Ludwig's angina. Outline how you would evaluate him preoperatively and problems anticipated during intubation.

(15 marks)

3. **Write short notes on :**

- 3A. Management of hypertensive crisis
- 3B. Management of patient diabetic ketoacidosis
- 3C. Inguinal field block
- 3D. Patient controlled analgesia
- 3E. Advantages and complication of combined spinal epidural block
- 3F. Intravenous regional analgesia
- 3G. Anaesthetic considerations for tubal ligation
- 3H. Aortocaval syndrome
- 3I. Drug distribution and elimination in elderly
- 3J. Myxoedema Crisis

(7×10 = 70 marks)



MANIPAL UNIVERSITY**MD (ANAESTHESIOLOGY) DEGREE EXAMINATION – APRIL 2014****SUBJECT: PAPER III: ANAESTHESIA IN RELATION TO SUB SPECIALITIES**

Thursday, April 03, 2014

Time: 14:00 – 17:00 Hrs.

Max. Marks: 100

✍ **Answer ALL the questions.**

✍ **Long Essays.**

1. How do you evaluate and manage a patient with right lower lobe bronchiectasis posted for lobectomy.

(15 marks)

2. How do you manage a 50 years old patient with known hypertension and IHD for an elective umbilical hernia repair who is on daily oral clopidogrel and aspirin.

(15 marks)

3. **Write short notes on :**

3A. Cardioplegia

3B. Cement Anaphylaxis

3C. Irrigating solutions used for TURP procedure

3D. Penile block

3E. Mega dose lignocaine

3F. Informed consent

3G. Brown Fat

3H. Aldrete scoring

3I. Hepato renal syndrome

3J. Fat embolism

(7×10 = 70 marks)



MANIPAL UNIVERSITY**MD (ANAESTHESIOLOGY) DEGREE EXAMINATION – APRIL 2014****SUBJECT: PAPER IV: INTENSIVE CARE MEDICINE, PAIN MEDICINE AND
RECENT ADVANCES**

Friday, April 04, 2014

Time: 14:00 – 17:00 Hrs.

Max. Marks: 100

✍ **Answer ALL the questions.**

✍ **Long Essays.**

1. Classify Tachyarrhythmia's. Describe the pharmacological management of supraventricular tachycardia during anesthesia.

(15 marks)

2. Describe the management of an adult admitted to the trauma care center with 6 fractured lower ribs on the left side with a pulse rate of 150/min, blood pressure of 70/40 mm of hg and a respiratory rate of 60/min.

(15 marks)

3. **Write short notes on:**

- 3A. Recombinant Factor V11 a
3B. Auto PEEP
3C. Methods of pain Relief in Trigeminal Neuralgia
3D. Enumerate the types of Study Design
3E. Tube Exchangers
3F. Role of Vasopressin in management of Shock
3G. Anesthesia for a Robot assisted laparoscopic Prostatic surgery
3H. Enumerate the complications of TPN
3I. Automated External Defibrillators
3J. Indications for Non Invasive Ventilation

(7×10 = 70 marks)

