

[KD 158]

Sub. Code : 2055

M.D. DEGREE EXAMINATION.

(New/Revised Regulations)

Branch X — Anaesthesiology

Part II

Paper II — ANAESTHESIOLOGY

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

1. 70 year old male presenting to casualty with a blood pressure of 80/50 mmHg, heart rate of 140/min, respiratory rate of 40/min, abdominal distension, constipation and vomiting of 3 days duration, diagnosed as strangulated inguinal hernia. Discuss the preoperative preparation, anaesthetic management and postoperative care of the patient. (25)
 2. Discuss the preoperative assessment, preparation and management of a 2 year old child with patent ductus arteriosus for ligation. (25)
 3. Write short notes on : (5 × 10 = 50)
 - (a) Various anaesthetic techniques for microlaryngeal surgery
 - (b) Oculo-cardiac reflex
 - (c) Intravenous regional anaesthesia
 - (d) Methods of reducing intracranial tension
 - (e) Methods of assessment of blood loss.
-

November-2001

[KE 158]

Sub. Code : 2055

M.D. DEGREE EXAMINATION.

(Revised Regulations)

Branch X — Anaesthesiology

Part II

Paper II — ANAESTHESIOLOGY

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

1. Discuss in detail the anaesthetic management of Myasthenia Gravis posted for surgery. (25)
 2. What are the problems in anaesthetising a patient with Ischaemic Heart Disease and uncontrollable Diabetes Mellitus? Describe briefly your management. (25)
 3. Write short notes on : (5 × 10 = 50)
 - (a) Thyroid crisis.
 - (b) Importance of dead space in anaesthesia.
 - (c) Reverse Steal Syndrome.
 - (d) Cyanosis in post tonsillectomy case.
 - (e) Fentanyl as analgesic in cardiac surgery.
-

March-2002

[KG 158]

Sub. Code : 2055

M.D. DEGREE EXAMINATION.

(Revised Regulations)

Branch X — Anaesthesiology

Part II

Paper II —ANAESTHESIOLOGY

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

1. Discuss the problems and anaesthetic management of a case of Acoustic Neuro-fibroma who is posted for removal. (25)
2. Discuss the pre anaesthetic preparation and intra and post operative management of Co-arctation of Aorta. (25)
3. Write short notes on : (5 × 10 = 50)
 - (a) Calcium Channel Blockers.
 - (b) TURP Syndrome.
 - (c) Emboli in Ortho. Surgery Prevention and Management.
 - (d) Role of LMA.
 - (e) Delayed recovery.



[KH 158]

Sub. Code : 2055

M.D. DEGREE EXAMINATION.

(Revised Regulations)

Branch X — Anaesthesiology

Part II

Paper II —ANAESTHESIOLOGY

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

1. A patient of coarctation of aorta is scheduled for caesarean section. Discuss the pre-operative preparation, anaesthetic management and post-operative care of the patient. (25)
 2. Discuss anaesthetic management in a case of Liver cirrhosis posted for obstructed hernia. (25)
 3. Write short notes on : (5 × 10 = 50)
 - (a) Preoperative preparation of thyrotoxic patients
 - (b) Supine hypotension syndrome
 - (c) Anaesthesia for bronchoscopy in children
 - (d) Goldman cardiac risk index
 - (e) Autologous blood transfusion.
-

April-2003

[KI 158]

Sub. Code : 2055

M.D. DEGREE EXAMINATION.

(Revised Regulations)

Branch X — Anaesthesiology

Part II

Paper II — ANAESTHESIOLOGY

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

1. A 43 yrs old Railway yard worker while on work sustains an open chest wound. Discuss the initial management at the site and definitive management later. (25)
 2. Discuss conduct of general anaesthesia in a neonate undergoing surgery for congenital pyloric stenosis. (25)
 3. Write short notes on : (5 × 10 = 50)
 - (a) HFJV
 - (b) Anaphylaxis under anaesthesia
 - (c) Awareness in anaesthesia
 - (d) Sedoanalgesia
 - (e) Jackson Rees circuit.
-

[KJ 158]

Sub. Code : 2055

M.D. DEGREE EXAMINATION.

(Revised Regulations)

Branch X — Anaesthesiology

Part II

Paper II — ANAESTHESIOLOGY

Time : Three hours

Maximum : 100 marks

Theory : Two hours and
Forty minutes

Theory : 80 marks

M.C.Q. : Twenty minutes

M.C.Q. : 20 marks

M.C.Q. must be answered **SEPARATELY** on the answer sheet provided as per the instructions on the first page.

Answer ALL questions.

Draw suitable diagrams wherever necessary.

1. A sixty year old woman is admitted with a compound fracture of left femur mid shaft in a vehicular accident. She is for open reduction. Preoperatively she is found to be restless, dysnoic, blood pressure 100/60 mmHg; pulse 115/mt; respiratory rate 36 per minute and temperature 40°C.

Discuss differential diagnosis.

Preoperative evaluation, anaesthetic management and post operative complications in the case. (15)

2. Discuss the problems in the anaesthetic management of a patient with preeclamptic toxemia posted for elective caesarian section. (15)

3. Short notes : (10 × 5 = 50)

1. Toxicity of local anaesthetic lignocaine.

2. Write about GATE control theory of pain.

3. Mallampati-assessment of air way.

4. Management of thyroid crisis.

5. How will you give anaesthesia to a patient with pacemaker posted for excision of lump breast?

6. Management of TURP syndrome on operation table.

7. APGAR score.

8. Management of post operative shivering.

9. Drug interactions in anaesthesia practice.

10. Beta adrenergic blocking drugs and anaesthesia.

[KL 158]

Sub. Code : 2055

M.D. DEGREE EXAMINATION.

(Revised Regulations)

Branch X — Anaesthesiology

Part II

Paper II — ANAESTHESIOLOGY

Time : Three hours Maximum : 100 marks

Theory : Two hours and Theory : 80 marks
forty minutes

M.C.Q. : Twenty minutes M.C.Q. : 20 marks

Answer ALL questions.

Draw suitable diagrams wherever necessary.

I. Essay : (2 × 15 = 30)

**(1) Describe evaluation, preanaesthetic
preparation and anaesthetic management of patient
with Bronchial Asthma posted for Inguinal
Herniorrhaphy.**

**(2) Discuss the Anaesthetic consideration in a
patient posted for laparoscopic cholecystectomy.**

II. Short notes :

(10 × 5 = 50)

- (a) Diabetic Keto acidosis**
- (b) Sellicks maneuvre**
- (c) TURP syndrome**
- (d) Propofol**
- (e) Azeotropic Mixture**
- (f) Horner's syndrome**
- (g) Walking Epidural**
- (h) ACLS**
- (i) Oxygen cascade**
- (j) Citrate Toxicity.**

[KM 158]

Sub. Code : 2055

M.D. DEGREE EXAMINATION.

(Revised Regulations)

Branch X — Anaesthesiology

Part II

Paper II — ANAESTHESIOLOGY

Time : Three hours Maximum : 100 marks

Theory : Two hours and forty minutes Theory : 80 marks

M.C.Q. : Twenty minutes M.C.Q. : 20 marks

Draw suitable diagrams wherever necessary.

Answer ALL questions.

I. Essay : (2 × 15 = 30)

(1) A 75 year old male patient with history of Hypertension, insulin dependent diabetes and coronary artery disease is admitted in emergency departments for an acute abdomen. Discuss preoperative workup, anaesthetic management and post-operative management.

(2) Discuss the preoperative management of a patient with pheochromocytoma.

II. Short notes : (10 × 5 = 50)

- (a) Fasting guidelines for adults and children
- (b) Monitoring for spinal surgery
- (c) Risk evaluation
- (d) Anaesthesia Record keeping
- (e) Fast tracking in anaesthetic practice
- (f) Anaesthetic management of a 3 year old child for removal of foreign body in left main bronchus
- (g) APACHE scoring systems
- (h) Levo bupivacaine
- (i) Chronic regional pain syndromes (CRPS)
- (j) Clopidogrel.

[KO 158]

Sub. Code : 2055

M.D. DEGREE EXAMINATION.

Branch X — Anaesthesiology

ANAESTHESIOLOGY

Time : Three hours Maximum : 100 marks

Theory : Two hours and Theory : 80 marks
forty minutes

M.C.Q. : Twenty minutes M.C.Q. : 20 marks

Draw suitable diagrams wherever necessary.

Answer ALL questions.

I. Essay type questions : (2 × 15 = 30)

(1) A three year old child with anterior mediastinal mass is posted for elective thoracotomy and excision of the mass. Discuss perioperative anaesthetic management.

(2) A 55 year old gentleman with hypertrophic obstructive cardiomyopathy is posted for elective open reduction and internal fixation of supracondylar fracture left humerus. Patient is refusing regional anaesthesia of any kind. Discuss perioperative anaesthetic management.

II. Short notes on : (10 × 5 = 50)

(a) Breast block

(b) Motor block assessment under epidural block

(c) Perioperative airway management of a neonate posted for surgical correction of Tracheo-Oesophageal Fistula

(d) Ankle Clonus Test

(e) TURP related blindness

(f) Discontinuation of cardiopulmonary bypass

(g) Margin of safety for Double lumen tube

(h) Detection and management of intraoperative myocardial ischaemia

(i) Physiological changes and therapeutic interventions with aortic cross clamping.

(j) Fate of sodium nitroprusside in the body and toxicity.

[KP 158]

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II. Short notes :

(6 x 5 = 30)

M.D. DEGREE EXAMINATION.

Branch X — Anaesthesiology

ANAESTHESIOLOGY

Time : Three hours

Maximum : 100 marks

Theory : Two hours and forty minutes

Theory : 80 marks

M.C.Q. : Twenty minutes

M.C.Q. : 20 marks

Answer ALL questions.

Draw suitable diagrams wherever necessary.

I. Essay questions :

(1) Describe the preoperative evaluation and discuss the risk assessment and management of a case of mitral stenosis in 45 yrs old female scheduled for Cholecystomy. (20)

(2) Discuss the anaesthetic management of cleft lip repair in 2 yrs old child. (15)

(3) Discuss the anaesthetic management of an uncontrolled diabetes mellitus patient coming for elective BPH (TURP). (15)

(a) **Balanced anaesthesia.**

(b) Anaesthesia for Electro Convulsive therapy.

(c) Intra operative cell salvage.

(d) Merits of combined spinal epidural technique.

(e) Snoring.

(f) Hepato renal shutdown.

[KQ 143]

Sub. Code : 2055

M.D. DEGREE EXAMINATION.

Branch X — Anaesthesiology

ANAESTHESIOLOGY

Common to

Part II — Paper II — (Old/New/Revised Regulations)

(Candidates admitted from 1988–89 onwards) and

Paper III — (For candidates admitted from 2004–2005
onwards)

Time : Three hours

Maximum : 100 marks

Theory : Two hours and
forty minutes

Theory : 80 marks

M.C.Q. : Twenty minutes

M.C.Q. : 20 marks

Answer ALL questions.

Draw suitable diagrams wherever necessary.

I. Essay questions :

(1) Describe the pathophysiological considerations in congenital cyanotic heart diseases. Describe the anaesthetic management of a patient with tetralogy of Fallot for Blalock's shunt surgery. (20)

(2) What are the common types of anaemias? Describe the anaesthetic management of patient with sickle cell crisis coming for 'acute abdomen'. (15)

(3) Define scoliosis. What are the anaesthetic implications for a patient undergoing corrective surgery in the perioperative period? (15)

II. Short notes : (6 × 5 = 30)

- (a) Peribulbar block.
- (b) Isoflurane in cardiac anaesthesia.
- (c) Infraclavicular brachial plexus block.
- (d) Complications of hypothermia under anaesthesia.
- (e) Walking epidural.
- (f) Tension pneumothorax.

[KR 143]

Sub. Code : 2055

M.D. DEGREE EXAMINATION.

Branch X — Anaesthesiology

ANAESTHESIOLOGY

Common to

Part II — Paper II — (Old/New/Revised Regulations)

(Candidates admitted up to 2003-2004)

Paper III — (For candidates admitted from 2004-2005 onwards)

Time : Three hours **Maximum : 100 marks**

Theory : Two hours and forty minutes	Theory : 80 marks
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M.C.Q. : Twenty minutes **M.C.Q. : 20 marks**

Answer ALL questions.

I. Essay questions :

(1) Discuss the pre-op evaluation, preparation, intra and post-op management of a full term male baby with congenital diaphragmatic hernia. (20)

(2) A 25 year old gravida, 3, para 2 is admitted with painless vaginal bleeding. The vital signs are BP – 80/50 mm Hg, HR – 126/min, RR – 26 /min, Hct – 24%. She is planned for an emergency LSCS. Discuss the pre-op evaluation, preparation and intra-op management. (15)

(3) A 20 year old mason is brought to the emergency room with a wooden piece that has struck on his right eye and embedded itself. He has had lunch 1½ hours back. Discuss the pre-op evaluation, preparation and intra-op management of this open eye injury. (15)

II. Short notes : (6 × 5 = 30)

(a) DVT prophylaxis following a hemiarthroplasty in an elderly man.

(b) Intra operative estimation of blood loss.

(c) Myocardial protection during open heart surgery.

(d) Pre-op preparation in pheochromocytoma.

(e) Esophageal detector device.

(f) Plan of airway management in a patient with a suspected cervical spine injury.

MARCH 2008

WS 2

[KS 146]

Sub. Code : 2041

M.D. DEGREE EXAMINATION.

Branch X — Anaesthesiology

ANAESTHESIOLOGY

Common to

Part II — Paper II — (Old/New/Revised Regulations)

(Candidates admitted upto 2003-04) and

Paper III — (For candidates admitted from 2004–2005 onwards)

Q.P. Code : 202041

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

Draw suitable diagrams wherever necessary.

I. Essay questions :

(2 × 20 = 40)

- (1) Classify tracheo-esophageal fistula. Discuss in detail the anaesthetic management of a two day old baby posted for repair of tracheo-esophageal fistula.
- (2) Describe the perioperative management of an adult posted for posterior fossa surgery.

II. Short notes :

(10 × 6 = 60)

- (1) Intravenous regional anesthesia
 - (2) Minimum patient monitoring during anesthesia.
 - (3) Post tonsillectomy bleeding and its management.
 - (4) Aspiration pneumonitis
 - (5) Bains circuit
 - (6) Principles of cardio-pulmonary bypass
 - (7) Intercostal nerve block
 - (8) Capnography
 - (9) Sodalime
 - (10) Servoflurane.
-

March 2009

[KU 146]

Sub. Code: 2041

M.D. DEGREE EXAMINATION

Branch X – ANAESTHESIOLOGY

**Part II - Paper II - (Candidates admitted upto 2003-2004) and
Paper III – (For candidates admitted from 2004-05 to 2007-2008)**

ANAESTHESIOLOGY

Q.P. Code : 202041

Time : Three hours

Maximum : 100 marks

Draw suitable diagram wherever necessary

Answer ALL questions

I. Essay questions : (2 x 20 = 40)

1. Describe the management of a 3year old child with foreign body aspiration posted for bronchoscopy.
2. Describe pre-operative preparation and management of phaeochromocytoma.

II. Write short notes on : (10 x 6 = 60)

1. Capnography.
2. Humidifiers.
3. Caudal epidural block.
4. Glasgow coma scale.
5. DIC.
6. Buprenorphine.
7. Awareness during anaesthesia.
8. Massive blood transfusion.
9. Problems in out-patient anaesthesia.
10. Activated coagulation time.

September 2009

[KV 146]

Sub. Code: 2041

M.D. DEGREE EXAMINATION

Branch X – ANAESTHESIOLOGY

**Part II - Paper II - (Candidates admitted upto 2003-2004) and
Paper III – (For candidates admitted from 2004-05 to 2007-2008)**

ANAESTHESIOLOGY

Q.P. Code : 202041

Time : Three hours

Maximum : 100 marks

Draw suitable diagram wherever necessary

Answer ALL questions

I. Essay questions : (2 x 20 = 40)

1. Discuss the peri-operative preparation and anaesthetic management of a child, posted for cleft palate repair.
2. Discuss the planning of a labor analgesia for a primigravida.

II. Write short notes on : (10 x 6 = 60)

1. Stellate ganglion block.
2. Peri-operative beta blockers.
3. Oxygen cascade.
4. Laryngeal mask airway.
5. Discharge criteria for day care anaesthesia.
6. Hypokalemia.
7. Importance of serum proteins in anaesthesia.
8. Anaesthesia ventilators.
9. Local anaesthetic toxicity.
10. Hazards of blood transfusion.

March 2010

[KW 146]

Sub. Code: 2041

M.D. DEGREE EXAMINATION

Branch X – ANAESTHESIOLOGY

**Paper III – (for candidates admitted from 2004-05 to 2007-08) and
Part II / Paper II – (for candidates admitted from 2008-2009 onwards)**

ANAESTHESIOLOGY

Q.P. Code : 202041

Time : Three hours

Maximum : 100 marks

Draw suitable diagram wherever necessary

Answer ALL questions

I. Essay questions :

(2 x 20 = 40)

1. Anaesthetic implications of congenital diaphragmatic hernia.
2. Discuss the methods of autologous blood salvage in the pre, intra and post operative period.

II. Write short notes on :

(10 x 6 = 60)

1. Ethylene oxide sterilization.
2. Combitube.
3. Caudal epidural block.
4. Capnography.
5. Malignant hyperthermia.
6. Oxygen toxicity.
7. High altitude anaesthesia.
8. I.V. induction agents suitable for out-patient anaesthesia.
9. Diabetic ketoacidosis.
10. Neostigmine induced arrhythmias.

September 2010

[KX 146]

Sub. Code: 2041

M.D. DEGREE EXAMINATION

Branch X – ANAESTHESIOLOGY

ANAESTHESIOLOGY

**Paper III – (for candidates admitted from 2004-05 to 2007-08) and
Part – II - Paper II – (for candidates admitted from 2008-2009 onwards)**

Q.P. Code : 202041

Time : Three hours

Maximum : 100 marks

Draw suitable diagram wherever necessary.

Answer ALL questions.

I. Essay questions :

(2 X 20 = 40)

1. Describe the effects of various positions in Anaesthesia. Describe the Anaesthetic management of a patient in sitting position.
2. Describe the anaesthetic management of a child posted for Tracheo oesophageal fistula correction.

II. Write short notes on :

(10 X 6 = 60)

1. Safety features on anaesthesia machine.
2. Digitalis toxicity.
3. Mallampatti Classification.
4. Cyanide toxicity.
5. ETO sterilization.
6. Minimum monitoring standards.
7. Sevoflurane.
8. WTG Morton.
9. Concentration and Second Gas Effect.
10. Combined spinal and Epidural Anaesthesia.

MAY 2011

[KY 146]

Sub. Code: 2041

**M.D. DEGREE EXAMINATION
BRANCH X – ANAESTHESIOLOGY
ANAESTHESIOLOGY**

Q.P. Code : 202041

**Time : 3 hours
(180 Min)**

Maximum : 100 marks

Answer ALL questions in the same order.

I. Elaborate on :

**Pages Time Marks
(Max.) (Max.) (Max.)**

- | | | | |
|--|----|----|----|
| 1. Define Laser. What are its clinical applications in anaesthesia? Enumerate the laser hazards and the precautions in anaesthetic practise. | 11 | 35 | 15 |
| 2. Describe the anaesthetic management of a child posted for congenital diaphragmatic hernia repair. | 11 | 35 | 15 |

II. Write notes on :

- | | | | |
|--|---|----|---|
| 1. Labor epidural analgesia. | 4 | 10 | 7 |
| 2. Oculo cardiac reflex. | 4 | 10 | 7 |
| 3. Heparin. | 4 | 10 | 7 |
| 4. Sevoflurane. | 4 | 10 | 7 |
| 5. N-Acetyl Cysteine. | 4 | 10 | 7 |
| 6. Remifentanyl. | 4 | 10 | 7 |
| 7. Acute normo-volemic hemodilution. | 4 | 10 | 7 |
| 8. Hemolytic transfusion reaction. | 4 | 10 | 7 |
| 9. Combined spinal and epidural Anaesthesia. | 4 | 10 | 7 |
| 10. Heat and Moisture Exchangers (HME). | 4 | 10 | 7 |

October 2011

[KZ 146]

Sub. Code: 2041

M.D. DEGREE EXAMINATION
BRANCH X – ANAESTHESIOLOGY
ANAESTHESIOLOGY

Q.P. Code : 202041

Time : 3 hours
(180 Min)

Maximum : 100 marks

Answer ALL questions in the same order.

I. Elaborate on :

Pages Time Marks
(Max.) (Max.) (Max.)

- | | | | |
|---|----|----|----|
| 1. Describe the preoperative evaluation, preparation and anaesthetic management of a hyperthyroid patient, planned for sub-total thyroidectomy. | 11 | 35 | 15 |
| 2. Describe the mechanisms of hypoxaemia during anaesthesia. | 11 | 35 | 15 |

II. Write notes on :

- | | | | |
|--|---|----|---|
| 1. Anaesthesia for Electro Convulsive Therapy (ECT). | 4 | 10 | 7 |
| 2. Intra operative hypertension. | 4 | 10 | 7 |
| 3. Anaesthesia in a patient with penetrating eye injury. | 4 | 10 | 7 |
| 4. Eutectic mixture of local anaesthetic. | 4 | 10 | 7 |
| 5. Airway assessment. | 4 | 10 | 7 |
| 6. Delayed recovery from anaesthesia. | 4 | 10 | 7 |
| 7. Hyperkalemic familial periodic paralysis. | 4 | 10 | 7 |
| 8. Direct arterial pressure monitoring. | 4 | 10 | 7 |
| 9. Confirmation of the position of intubated double - Lumen tubes. | 4 | 10 | 7 |
| 10. Obturator nerve block. | 4 | 10 | 7 |

APRIL 2012

[LA146]

Sub. Code: 2041

M.D. DEGREE EXAMINATION

BRANCH X – ANAESTHESIOLOGY

ANAESTHESIOLOGY

Q.P. Code : 202041

**Time: 3 hours
(180 Min)**

Maximum: 100 marks

Answer ALL questions in the same order.

I. Elaborate on :

Pages (Max.)	Time (Max.)	Marks (Max.)
-------------------------	------------------------	-------------------------

- | | | | |
|---|----|----|----|
| 1. Anesthetic management of 8 yrs old posted for craniotomy and decompression for Arnold Chiari malformation. | 16 | 35 | 15 |
| 2. Anesthesia for total laryngectomy. | 16 | 35 | 15 |

II. Write notes on :

- | | | | |
|---|---|----|---|
| 1. How do Oxygen concentrators function? Mention their uses? | 4 | 10 | 7 |
| 2. What is the effect of Damping in invasive arterial pressure monitoring? | 4 | 10 | 7 |
| 3. What are Balanced salt solutions and explain their uses. | 4 | 10 | 7 |
| 4. Explain Airway anesthesia for awake intubation. | 4 | 10 | 7 |
| 5. How will you treat Phantom Limb Pain. | 4 | 10 | 7 |
| 6. Different approaches for infra clavicular brachial plexus Block. | 4 | 10 | 7 |
| 7. Wake up testing -Explain how and when it is done? | 4 | 10 | 7 |
| 8. AV conduction block and anesthetic implications. | 4 | 10 | 7 |
| 9. Explain Target controlled infusion. | 4 | 10 | 7 |
| 10. What is the role of Trans Esophageal Echocardiography in cardiac surgery. | 4 | 10 | 7 |

[LB146]

OCTOBER 2012
M.D. DEGREE EXAMINATION
BRANCH X – ANAESTHESIOLOGY
ANAESTHESIOLOGY
Q.P. Code : 202041

Sub. Code: 2041

Time: 3 hours
(180 Min)

Maximum: 100 marks

Answer ALL questions in the same order.

I. Elaborate on :

Pages	Time	Marks
(Max.)	(Max.)	(Max.)

- | | | | |
|---|----|----|----|
| 1. Discuss the preoperative evaluation, preparation and anesthetic management of a patient posted for pneumonectomy for Carcinoma right bronchus. | 16 | 35 | 15 |
| 2. Anesthetic management of an exhausted pregnant mother for emergency C – section for Rupture of uterus. | 16 | 35 | 15 |

II. Write notes on:

- | | | | |
|---|---|----|---|
| 1. Continuous supraclavicular block – How, when is it done? | 4 | 10 | 7 |
| 2. Anesthesia for modified Electro Convulsive Therapy. | 4 | 10 | 7 |
| 3. Explain the Airway fire protocol during LASER Surgery. | 4 | 10 | 7 |
| 4. Explain Jugular venous oximetry. | 4 | 10 | 7 |
| 5. Describe the Concept of Low flow anesthesia | 4 | 10 | 7 |
| 6. Temperature monitoring under anesthesia. | 4 | 10 | 7 |
| 7. Evaluation of snoring and anesthetic challenges in these patients. | 4 | 10 | 7 |
| 8. Merits of Combined spinal epidural analgesia. | 4 | 10 | 7 |
| 9. Write about injection Vasopressin. | 4 | 10 | 7 |
| 10. Anesthetic challenges for patients on chronic steroid Therapy. | 4 | 10 | 7 |

M.D. DEGREE EXAMINATION

BRANCH X –ANAESTHESIOLOGY

ANAESTHESIOLOGY

Q.P.Code: 202041

Time: Three Hours

Maximum: 100 marks

I. Elaborate on:

(2X15=30)

1. Describe the pre-operative evaluation, preparation and anaesthetic management of a hyperthyroid patient, planned for sub-total Thyroidectomy.
2. Describe the mechanisms of hypoxaemia during anaesthesia.

II. Write notes on:

(10X7=70)

1. Method of anaesthesia administration for electro-convulsive therapy.
2. Causes and management of intra-operative hypertension.
3. Problems and management of anaesthesia in a patient with penetrating eye injury
4. Ingredients, concentrations, application forms and uses of Eutectic Mixture of Local Anaesthetic.
5. Methods of preoperative Airway assessment in an adult.
6. Causes and management of Delayed recovery from anaesthesia.
7. Clinical presentation, problems in anaesthesia and management of Hyperkalemic Familial Periodic paralysis.
8. Indications, method and complications of Direct arterial pressure monitoring
9. Methods to confirm the placement of a double lumen tube.
10. Anatomy, indications and method of Obturator nerve block

[LD 146]

OCTOBER 2013

Sub. Code: 2041

M.D. DEGREE EXAMINATION
BRANCH X – ANAESTHESIOLOGY
ANAESTHESIOLOGY

Q.P.Code: 202041

Time: Three Hours

Maximum: 100 marks

I. Elaborate on:

(2 x 15 = 30)

1. Describe the anaesthetic management of a 55 year old male, alcoholic for 25 years, in hepatic failure, posted for liver transplantation.
2. Write the pathophysiology of shock and the anaesthetic considerations of hypovolaemic shock in a trauma victim.

II. Write notes on:

(10 x 7 = 70)

1. Problems and management of Anaesthesia for MRI scan.
2. Complications and management of Hypertensive crisis.
3. Role of anaesthesiologist in Monitored anaesthesia care.
4. Problems of Smoking and management in Anaesthesia.
5. Management of raised intracranial tension during surgery.
6. Causes and treatment of Post-operative nausea and vomiting.
7. Assessment of recovery in Day-care surgery.
8. Diagnosis and management of Thyroid storm.
9. Methods of Hypotensive anaesthesia.
10. Describe the factors influencing and not influencing the spread of intrathecal local anaesthetics.

**M.D. DEGREE EXAMINATION
BRANCH X –ANAESTHESIOLOGY
ANAESTHESIOLOGY**

Q.P. Code :202041

Time : Three Hours

Maximum : 100 marks

I. Elaborate on:

(2X15=30)

1. Classify hypertensive disorders of pregnancy. Describe the pre-anaesthetic evaluation, preparation of a 18 year old Primi-Gravida with a BP of 170 / 100 with pedal oedema and proteinuria of more than 5 grams / 24 hrs. Discuss your anaesthetic management for LSCS.
2. What are the common etiologies of perioperative Pneumothorax. How do you diagnose and manage perioperative pneumothorax.

II. Write notes on:

(10X7=70)

1. Nil per oral guidelines for a 3 year old child posted for herniotomy.
2. What are the various concerns for giving sedation in MRI room.
3. Cardiovascular toxicity of local anaesthetic drugs.
4. RIFLE criteria for acute renal injury.
5. Anaesthetic goals in management of a patient with Aortic stenosis posted for non cardiac surgery.
6. Stellate ganglion block and its complications.
7. How is venous air embolism detected and managed during neurosurgery.
8. What are the uses of pulmonary artery catheterisation.
9. Guideline for use of epidural catheters for a patient on oral Warfarin.
10. Anaesthetic concerns in a child with suspected family history of Malignant Hyperthermia.

[LF 146]

OCTOBER 2014

Sub. Code: 2041

**M.D. DEGREE EXAMINATION
BRANCH X – ANAESTHESIOLOGY
PAPER III - ANAESTHESIOLOGY**

Q.P. Code :202041

Time : Three Hours

Maximum : 100 marks

I. Elaborate on:

(2 x 15 = 30)

1. Discuss the Peri-operative problems and anaesthetic management of a 2-day old child scheduled for Tracheo-Oesophageal Fistula repair surgery.
2. An 80 year old man with Cardiomyopathy is scheduled for total hip replacement. Outline the intra-operative and post-operative anaesthesia and pain management.

II. Write notes on:

(10 x 7 = 70)

1. Oculo- cardiac reflex.
2. Total Intravenous anaesthesia (TIVA)
3. Ultrasound for post-operative pain relief.
4. Micro-laryngeal surgery and anaesthesia.
5. Thyroid crisis.
6. Supra-glottic devices.
7. TURP syndrome.
8. Supine hypotension syndrome.
9. Awareness under anaesthesia.
10. Post-operative shivering and management.

[LG 146]

APRIL 2015

Sub. Code: 2041

M.D. DEGREE EXAMINATION
BRANCH X – ANAESTHESIOLOGY
PAPER III – ANAESTHESIOLOGY
Q.P.Code: 202041

Time: Three Hours

Maximum: 100 marks

Answer ALL questions

I. Elaborate on:

(2 x 15 = 30)

1. List the indications and outline the pharmacological techniques available for induced hypotension. What are the complications of hypotensive anaesthesia?
2. A six year old child is brought to the hospital with H/O foreign body aspiration. The child is arousable, dyspnoeic, sweaty and having cyanosis. Outline the plane of anaesthesia for foreign body removal.

II. Write notes on:

(10 x 7 = 70)

1. Role of suppositories in Anaesthesia practice.
2. Methods of identifying epidural space.
3. Modified electroconvulsive therapy.
4. Awareness during Anaesthesia.
5. Blind nasal intubation.
6. Fat embolism.
7. Bronchial blockers.
8. Cervical plexus block and Indications.
9. Autologous blood transfusion
10. Trans Esophageal Echo-cardiography.

[LH 146]

OCTOBER 2015

Sub. Code: 2041

**M.D. DEGREE EXAMINATION
BRANCH X – ANAESTHESIOLOGY
PAPER III – ANAESTHESIOLOGY**

Q.P. Code: 202041

Time: Three Hours

Maximum: 100 marks

Answer ALL questions

I. Elaborate on:

(2 x 15 = 30)

1. An 8 year old child who underwent tonsillectomy 4 hours earlier returns to operating room with bleeding from the tonsillar site. Describe preoperative preparation, pre-operative assessment and anaesthetic management of this case.
2. A 75 year old male with history of hypertension, diabetes and coronary artery disease is coming for surgery for acute abdomen. Discuss pre-op work up, anaesthetic management and post-operative management.

II. Write notes on:

(10 x 7 = 70)

1. Anaesthesia record keeping.
2. CRPS.
3. Levo-bupivacaine.
4. Double-lumen tubes.
5. Hepato-renal syndrome.
6. Anaesthesia for ECT.
7. Pre-operative preparation for pheochromocytoma.
8. Paravertebral block.
9. Buprenorphine.
10. Occupational hazards for the anaesthetist.

[LI 146]

APRIL 2016

Sub. Code: 2041

**M.D. DEGREE EXAMINATION
BRANCH X – ANAESTHESIOLOGY
PAPER III – ANAESTHESIOLOGY
Q.P. Code :202041**

Time : Three Hours

Maximum : 100 Marks

I. Elaborate on:

(2 x 15 = 30)

1. Discuss the pre-operative evaluation, preparation and anaesthetic management of a 45 years old man posted for L3-L4 Laminectomy and spine stabilization.
2. Briefly describe the physiological changes in the CVS, gastro intestinal system and nervous system in normal pregnancy. Describe the anaesthesia for emergency LSCS for fetal distress.

II. Write notes on:

(10 x 7 = 70)

1. Oculo - Cardiac reflex.
2. ARDS.
3. Combined spinal epidural anaesthesia.
4. Diabetic ketoacidosis.
5. Bone cement and Anaesthetic implications.
6. Oxygen therapy.
7. TURP syndrome.
8. Tranversus abdominis plane block.
9. Post tonsillectomy bleeding.
10. Post operative jaundice.

[LJ 146]

OCTOBER 2016

Sub. Code: 2041

**M.D. DEGREE EXAMINATION
BRANCH X – ANAESTHESIOLOGY
PAPER III – ANAESTHESIOLOGY**

Q.P. Code :202041

Time : Three Hours

Maximum : 100 Marks

I. Elaborate on:

(2 x 15 = 30)

1. Brief the pain path ways involved in the conduction of labour pain. Discuss the Regional analgesic techniques for labour analgesia.
2. 68 years old COPD patient presenting with intestinal obstruction of 4 days duration. Discuss the acid base and electrolyte derangement and the pre-operative preparation.

II. Write notes on:

(10 x 7 = 70)

1. Recombinant factor VII – Role in emergency obstetrics.
2. Supra ventricular tachycardia.
3. Wake up test.
4. CORMACK LEHANE - Laryngoscopic view.
5. Nerve stimulator.
6. DAY CARE SURGERY – Risk and benefits.
7. Functional status assessment.
8. AMSORB.
9. CLASP (Collaborative Low-dose Aspirin Study in Pregnancy) study.
10. Intracranial pressure reduction manoeuvres.

[LK 146]

MAY 2017

Sub. Code: 2041

**M.D. DEGREE EXAMINATION
BRANCH X – ANAESTHESIOLOGY
PAPER III – ANAESTHESIOLOGY**

Q.P. Code :202041

Time : Three Hours

Maximum : 100 Marks

I. Elaborate on:

(2 x 15 = 30)

1. A 70 year old hypertensive and diabetic patient scheduled for transurethral resection of prostate (TURP). He is on antihypertensive therapy with betablockers and ACE inhibitors and OHAs. His blood pressure is 140/90 mmhg and RBS 250mg%. Discuss the perioperative management of this patient.
2. Describe the pre-op preparation and management of 45 yr old man with bronchiectasis of Right lower lobe scheduled for the right lower lobectomy in lateral position?

II. Write notes on:

(10 x 7 = 70)

1. Rapid sequence induction.
2. Hypotensive anaesthesia.
3. Cardioplegia.
4. Bone cement.
5. Transcutaneous electrical nerve stimulation.
6. Post dural puncture headache.
7. Acute thyroid crisis.
8. Cerebral protection.
9. Internal Jugular Vein cannulation.
10. Evoked potentials.

[LL 146]

OCTOBER 2017

Sub. Code: 2041

**M.D. DEGREE EXAMINATION
BRANCH X – ANAESTHESIOLOGY
PAPER III – ANAESTHESIOLOGY**

Q.P. Code :202041

Time : Three Hours

Maximum : 100 Marks

I. Elaborate on:

(2 x 15 = 30)

1. Draw the intrinsic and extrinsic path way of clotting mechanism.
Anaesthetic management of a haemophilia – A patient with Road traffic accident presented for fracture femur fixation.
2. 72 years old male with history of previous myocardial infarction with pacemaker inserted for frequent syncopal attacks. Now he is posted for trans urethral resection of prostate.
Discuss the anaesthetic consideration for him?

II. Write notes on:

(10 x 7 = 70)

1. Perioperative cognitive dysfunction in elderly.
2. Stress test.
3. Fluid regimen for burned patients in the acute phase.
4. Conscious sedation.
5. Mismatched transfusion.
6. Surgery specific risk predictors.
7. Local anaesthetic toxicity.
8. Proseal LMA.
9. Caudal epidural in new born.
10. Intraoperative arrhythmia.

[LM 146]

MAY 2018

Sub. Code: 2041

**M.D. DEGREE EXAMINATION
BRANCH X – ANAESTHESIOLOGY
PAPER III – ANAESTHESIOLOGY**

Q.P. Code :202041

Time : Three Hours

Maximum : 100 Marks

I. Elaborate on:

(2 x 15 = 30)

1. Describe three different levels of Brachial Plexus block.
2. Anaesthetic management and postoperative care of a 20 year old patient with myasthenia gravis for thymectomy.

II. Write notes on:

(10 x 7 = 70)

1. TURP syndrome.
2. Post extubation laryngospasm.
3. TUOHY needle.
4. Acute left ventricular failure.
5. Retained placenta.
6. Blood component therapy.
7. Clinical assessment of airway.
8. Malignant Hyperpyrexia.
9. Bronchopleural fistula.
10. Double lumen tubes.

[LN 146]

OCTOBER 2018

Sub. Code: 2041

**M.D. DEGREE EXAMINATION
BRANCH X – ANAESTHESIOLOGY
PAPER III – ANAESTHESIOLOGY**

Q.P. Code: 202041

Time : Three Hours

Maximum : 100 Marks

I. Elaborate on:

(2 x 15 = 30)

1. Anaesthetic management of 40 years female obese patient for laparoscopic cholecystectomy.
2. 70 years male patient with fracture neck of femur for total hip arthroplasty. Discuss the anaesthetic management.

II. Write notes on:

(10 x 7 = 70)

1. Inadequate recovery from muscle relaxant.
2. Pencil point spinal needle.
3. Left Ventricular End Diastolic Pressure.
4. Postoperative delirium.
5. Hypothermia.
6. Mendelson syndrome.
7. Scoline Apnoea.
8. Evacuation of molar pregnancy.
9. Child Pugh Scoring.
10. Fibreoptic Bronchoscopy.

[LO 146]

MAY 2019

Sub. Code: 2041

**M.D. DEGREE EXAMINATION
BRANCH X – ANAESTHESIOLOGY
PAPER III – ANAESTHESIOLOGY**

Q.P. Code: 202041

Time : Three Hours

Maximum : 100 Marks

I. Elaborate on:

(2 x 15 = 30)

1. Describe the various pathophysiological changes during pregnancy and discuss the anesthetic management of a patient for LSCS with Central Placenta Previa.
2. Discuss the problem associated with the anesthetic management of a 1 day old neonate posted for Tracheo Oesophageal Fistula Repair.

II. Write notes on:

(10 x 7 = 70)

1. Transverse abdominis plane block.
2. Post tonsillectomy bleeding.
3. Levobupivacaine.
4. Management of cervical spine injury.
5. Airway block for fiberoptic intubation.
6. Stellate ganglion block.
7. Regional anesthesia for patients on anticoagulation.
8. Causes and management of delayed recovery from anesthesia.
9. Trans esophageal echocardiography.
10. Post operative complication of thyroid surgeries.

[LP 146]

OCTOBER 2019

Sub. Code: 2041

**M.D. DEGREE EXAMINATION
BRANCH X – ANAESTHESIOLOGY
PAPER III – ANAESTHESIOLOGY**

Q.P. Code: 202041

Time : Three Hours

Maximum : 100 Marks

I. Elaborate on: **(2 x 15 = 30)**

1. Discuss the grading of chronic kidney disease. Describe the preoperative evaluation of a patient with ESRD and management of a recipient posted for renal transplantation.
2. What are the Indications, various techniques, advantages and disadvantages of Hypotensive Anesthesia?

II. Write notes on: **(10 x 7 = 70)**

1. Recombinant factor VII.
2. Intra Cranial pressure – Reduction.
3. Discuss the local anaesthetic toxicity.
4. Anesthesia for ECT.
5. Methods of Identifying Epidural space.
6. Post operative nausea and Vomiting.
7. Anesthesia for MRI.
8. Tourniquet.
9. Metabolic acidosis.
10. Awareness during anesthesia.

[LQ 146]

**AUGUST 2020
(MAY 2020 SESSION)**

Sub. Code: 2041

M.D. DEGREE EXAMINATION

BRANCH X – ANAESTHESIOLOGY

PAPER III – ANAESTHESIOLOGY

Q.P. Code: 202041

Time : Three Hours

Maximum : 100 Marks

I. Elaborate on:

(2 x 15 = 30)

1. 35 years old lady with huge thyroid mass presenting with thyrotoxicosis is posted for subtotal thyroidectomy. Discuss the preoperative preparation and anaesthetic management.
2. Discuss the anaesthetic management of 3 years old child posted for cleft palate repair.

II. Write notes on:

(10 x 7 = 70)

1. Myocardial preservation during Cardio pulmonary bypass.
2. Pain relief for fracture ribs.
3. Causes and management of postoperative hypoxia.
4. TURP Syndrome.
5. Anaesthesia for foreign body in the right bronchus.
6. Anaesthetic concerns in thalassemia.
7. Neonatal resuscitation.
8. Peribulbar block.
9. Negative pressure pulmonary edema.
10. Placental transfer of anaesthesia drugs.

[LS 146]

**NOVEMBER 2020
(OCTOBER 2020 SESSION)**

Sub. Code: 2041

**M.D. DEGREE EXAMINATION
BRANCH X – ANAESTHESIOLOGY
PAPER III – ANAESTHESIOLOGY**

Q.P. Code: 202041

Time : Three Hours

Maximum : 100 Marks

I. Elaborate on:

(2 x 15 = 30)

1. Discuss the pathophysiology and diagnosis of a case of pheochromocytoma. Give an account of preparation, monitoring and anaesthetic management of a 25 year old patient suffering from pheochromocytoma?
2. Discuss the anaesthetic management of a full term primi gravida with severe preeclampsia posted for LSCS.

II. Write notes on:

(10 x 7 = 70)

1. Cardioplegia and its role in cardiac anaesthesia practice.
2. Role of anaesthesiologist in managing shoulder pain.
3. Intra aortic balloon pump.
4. Post operative vision loss.
5. Fetal circulation.
6. Dantrolene sodium.
7. Post operative fever.
8. Gantacurium.
9. Obturator nerve block.
10. Delayed recovery from anaesthesia.

[MD 0721]

**JULY 2021
(MAY 2021 SESSION)**

Sub. Code: 2040

**M.D. DEGREE EXAMINATION
BRANCH X – ANAESTHESIOLOGY
PAPER III – ANAESTHESIOLOGY**

Q.P. Code: 202041

Time : Three Hours

Maximum : 100 Marks

I. Elaborate on: **(2 x 15 = 30)**

1. Discuss the various types of non operating room anaesthesia.
Discuss the anaesthetic demands and the professional hazards faced by anaesthesiologist in this scenario.
2. Anaesthetic management of a 70 year old man with history of coronary artery disease with coronary stents in situ and systemic hypertension posted for total knee replacement .

II. Write notes on: **(10 x 7 = 70)**

1. Post dural puncture headache.
2. Jehovah's witness.
3. Protamine.
4. Damping effect in invasive arterial pressure monitoring.
5. Combined spinal and epidural anaesthesia.
6. High altitude anaesthesia.
7. Preanaesthetic assessment.
8. Postoperative shivering.
9. Cryoprecipitate.
10. LMA.

THE TAMIL NADU DR. M.G.R. MEDICAL UNIVERSITY

[MD 1121]

**NOVEMBER 2021
(OCTOBER 2021 SESSION)**

Sub. Code: 2041

M.D. DEGREE EXAMINATION

BRANCH X – ANAESTHESIOLOGY

PAPER III – ANAESTHESIOLOGY

Q.P. Code: 202041

Time : Three Hours

Maximum : 100 Marks

I. Elaborate on:

(2 x 15 = 30)

1. Discuss the peri-operative preparation and anaesthetic management of two year old child posted for cleft palate repair.
2. Describe the peri-operative management of an adult posted for Posterior Fossa surgery.

II. Write notes on:

(10 x 7 = 70)

1. Bain's circuit.
2. Principles of cardiopulmonary bypass.
3. Sevoflurane.
4. Spinal cord stimulation in chronic pain management.
5. Implants in the management of chronic pain.
6. Foetal circulation.
7. Digoxin.
8. TURP syndrome.
9. Amniotic Fluid Embolism.
10. Swanz Ganz catheter.

THE TAMIL NADU DR.M.G.R. MEDICAL UNIVERSITY

[MD 0522]

MAY 2022

Sub. Code: 2041

M.D. DEGREE EXAMINATION

BRANCH X – ANAESTHESIOLOGY

PAPER III – ANAESTHESIOLOGY

Q.P. Code: 202041

Time : Three Hours

Maximum : 100 Marks

I. Elaborate on:

(2 x 15 = 30)

1. Discuss anaesthesia management with 60yrs old women with weight of 116kg, posted for laparoscopic cholecystectomy.
2. Post renal transplant patient posted for Emergency Laparotomy, discuss the anesthetic management.

II. Write notes on:

(10 x 7 = 70)

1. Congenital Diaphragmatic Hernia- anaesthetic implications.
2. Non invasive ventilation.
3. Hazards of Laser surgery and protective measures.
4. Systemic Inflammatory Response Syndrome.
5. Cardioplegia.
6. Traumatic Brain Injury.
7. Third Generation LMA.
8. Isoflurane.
9. Post operative Hypoxemia.
10. Ventilator Associated Pneumonia.

THE TAMIL NADU DR.M.G.R. MEDICAL UNIVERSITY

[MD 1022]

OCTOBER 2022

Sub. Code: 2041

**M.D. DEGREE EXAMINATION
BRANCH X – ANAESTHESIOLOGY
PAPER III – ANAESTHESIOLOGY**

Q.P. Code: 202041

Time : Three Hours

Maximum : 100 Marks

I. Elaborate on:

(2 x 15 = 30)

1. Discuss the Anaesthetic management of a one year old child posted for myelomeningocele repair.
2. Discuss the preoperative preparation and anaesthetic management of papillary carcinoma thyroid posted for Total thyroidectomy.

II. Write notes on:

(10 x 7 = 70)

1. Double Lumen tubes.
2. Labour Analgesia.
3. Anaesthetic management for bronchoscopy.
4. Failed intubation drill.
5. Management of post op pain relief in LSCS.
6. Fibreoptic Bronchoscope.
7. Tumescant Anaesthesia.
8. High Flow Nasal Oxygen.
9. Airway Blocks.
10. Recombinant Human Erythropoietin injection.

THE TAMIL NADU DR.M.G.R. MEDICAL UNIVERSITY

[MD 0723]

**JULY 2023
(MAY 2023 EXAM SESSION)**

Sub. Code: 2041

**M.D. DEGREE EXAMINATION
BRANCH X – ANAESTHESIOLOGY
PAPER III – ANAESTHESIOLOGY
Q.P. Code: 202041**

Time : Three Hours

Maximum : 100 Marks

I. Elaborate on:

(2 x 15 = 30)

1. Discuss in detail about the Anesthetic Management and Post operative care of a Patient Posted for Mitral Valve Replacement Surgery.
2. Enumerate the Causes of Hydrocephalus and Management of a Hydrocephalus Child (5 Years) Posted for Ventriculo Peritoneal Shunt.

II. Write notes on:

(10 x 7 = 70)

1. Recombinant Factor VII.
2. TURP Syndrome.
3. Anesthesia for MRI.
4. Methods for Identification of Epidural Space.
5. Lung Isolation Techniques.
6. Attenuation of Intubation Response.
7. Assessment of Difficult Airway.
8. Post Operative Delirium.
9. Desflurane.
10. Diabetic Keto Acidosis.

THE TAMIL NADU DR.M.G.R. MEDICAL UNIVERSITY

[MD 1223]

**DECEMBER 2023
(OCTOBER 2023 EXAM SESSION)**

Sub. Code: 2041

**M.D. DEGREE EXAMINATION
BRANCH X – ANAESTHESIOLOGY
PAPER III – ANAESTHESIOLOGY
*Q.P. Code: 202041***

Time : Three Hours

Maximum : 100 Marks

I. Elaborate on:

(2 x 15 = 30)

1. Perioperative considerations for a Paediatric patient presenting with a Benign Cerebello-pontine Angle Tumor.
2. A middle aged obese woman with a history of Asthma presents with a Large Anterior Mediastinal Mass for resection. Discuss the perioperative management.

II. Write notes on:

(10 x 7 = 70)

1. Physiological signs of loss of Consciousness.
2. Co-Oximetry.
3. Volume Capnogram.
4. Depth of Neuromuscular block based on subjective and objective criterion.
5. Intravenous Drug Delivery Systems.
6. Ion Channel Blockers as Analgesics.
7. Drug Induced Hyperthermia syndromes.
8. Nerve locator.
9. Perioperative Visual Loss.
10. Bridging a patient on Warfarin Therapy.
