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

**[MD 0524]** **MAY 2024** **Sub. Code: 4027**

**M.D. DEGREE EXAMINATION**

**BRANCH X – ANAESTHESIOLOGY**

**PAPER III – ANAESTHESIA IN RELATION TO SUBSPECIALTIES / SUPERSPECIALTIES**

***Q.P. Code: 204027***

**Time : Three Hours** **Maximum : 100 Marks**

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

1. Preoperative assessment, optimisation and anaesthetic management of a patient with cirrhotic liver disease posted for emergency open appendicectomy.

2. Elaborate on pathophysiology of raised intracranial tension and Brain relaxation measures.
   a) Anaesthetic considerations for sitting craniotomy surgeries.

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

1. Amniotic fluid embolism.
2. Postoperative cognitive dysfunction.
3. Permissive Hypercapnia.
4. Massive Blood transfusion protocols.
5. Intravenous regional anaesthesia.
6. Anaesthesia for Electroconvulsive therapy (ECT).
7. Thyroid storm.
8. Sugammadex.
9. Multimodal Analgesia.
10. Ischaemic preconditioning.

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

**[MD 1224]** **DECEMBER 2024** **Sub. Code: 4027**

**(OCTOBER 2024 EXAM SESSION)**

**M.D. DEGREE EXAMINATION**

**ANAESTHESIOLOGY**

**PAPER III – ANAESTHESIA IN RELATION TO SUBSPECIALTIES /SUPERSPECIALTIES**

***Q.P. Code: 204027***

**Time : Three Hours** **Maximum : 100 Marks**

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

1. Describe in detail the anaesthetic management of patients with distal CBD growth for Whipple's procedure.

2. Describe in detail the anaesthetic management of a one-year-old infant with foreign body in right main bronchus posted for emergency retrieval.

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

1. Cardiopulmonary exercise testing (CPET).
2. Indications for one lung ventilation.
3. Enhanced Recovery After Surgery (ERAS).
4. Video laryngoscopy.
5. Challenges in non-operating room anaesthesia.
6. PENG block.
7. LASER and anaesthesia.
8. Opioid induced respiratory depression.
9. Neuro monitoring.
10. Extra glottic devices in children.

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

**[MD 0525]** **MAY 2025** **Sub. Code: 4027**

**M.D. DEGREE EXAMINATION**

**ANAESTHESIOLOGY**

**PAPER III – ANAESTHESIA IN RELATION TO SUBSPECIALTIES / SUPERSPECIALTIES**

***Q.P. Code: 204027***

**Time : Three Hours** **Maximum : 100 Marks**

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

1. Discuss the causes, diagnosis and management of delayed recovery from general anaesthesia after an abdominal surgery.

2. Discuss the anaesthetic management of a 70-year-old male patient with ankylosing spondylitis, fracture neck of femur for total hip replacement.

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

1. Anaesthesia for foetal surgery.

2. Pulmonary function tests.

3. Somatosensory evoked potential.

4. Laparoscopy in pregnancy.

5. Modes of ventilation during bronchoscopy.

6. Coeliac plexus block.

7. Postpartum Haemorrhage.

8. Postoperative laryngospasm.

9. Anaesthesia for bronchopleural fistula repair.

10. Horner's Syndrome.

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**THE TAMIL NADU Dr. M.G.R. MEDICAL UNIVERSITY**

**[MD 1025]** **OCTOBER 2025** **Sub. Code: 4027**

**M.D. DEGREE EXAMINATION**

**ANAESTHESIOLOGY**

**PAPER III – ANAESTHESIA IN RELATION TO SUBSPECIALTIES / SUPERSPECIALITIES**

***Q.P. Code: 204027***

**Time : Three Hours** **Maximum : 100 Marks**

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

1. a) Describe the physiological considerations and Pharmacological implications in Anaesthesia for Neonates and Infants.
   b) Develop a plan for conducting Anaesthesia for Foreign Body aspiration in a 2-year-old child.

2. Etiopathogenesis of Bronchiectasis. Preoperative evaluation, preparation and Anaesthetic management of patient posted for Lobectomy surgery.

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

1. Malignant hyperthermia.
2. Direct measurement of arterial blood pressure.
3. Renal function tests.
4. HELLP syndrome.
5. Bone cement implantation syndrome.
6. Management of Organ donors after declaration of Brain death.
7. Heparin induced thrombocytopenia.
8. Bronchial blockers.
9. Autologous blood transfusion.
10. BIS monitor.

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**THE TAMIL NADU Dr. M.G.R. MEDICAL UNIVERSITY**

**[MD 0526]** **MAY 2026** **Sub. Code: 4027**

**M.D. DEGREE EXAMINATION**

**ANAESTHESIOLOGY**

**PAPER III – ANAESTHESIA IN RELATION TO SUBSPECIALITIES / SUPERSPECIALITIES**

***Q.P. Code: 204027***

**Time : Three Hours** **Maximum : 100 Marks**

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

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

2. Describe the effects of various positions in Anaesthesia. Describe the Anaesthetic management of a patient in Trendelenburg position.

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

1. Acute normovolemic hemodilution.

2. Levobupivacaine.

3. Obturator nerve block.

4. Delayed recovery.

5. Morbid obesity.

6. Hypokalemic periodic paralysis.

7. Anaesthesia in MRI console.

8. Hypokalemia.

9. Dexmeditomidine.

10. Fastrach LMA.

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