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

[MD 0524] **MAY 2024** **Sub. Code: 4026**

M.D. DEGREE EXAMINATION

BRANCH X – ANAESTHESIOLOGY

PAPER II – PRACTICE OF ANAESTHESIA: ANAESTHESIA IN RELATION TO ASSOCIATED SYSTEMIC AND MEDICAL DISEASES

Q.P. Code: 204026

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

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

1. Mechanism and implications of perioperative arrhythmias.
   a) Indications and Techniques of correction of arrhythmias.
   b) Implantable Cardioverter Defibrillator.

2. Perioperative management of a diabetic patient, presenting with DKA. Discuss conduct of anaesthesia to this patient for Below knee amputation.

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

1. Blood component therapy.
2. Occulocardiac reflex.
3. Caudal epidural block.
4. Intraoperative Bronchospasm.
5. Positional hazards during anaesthesia.
6. Unanticipated difficult airway –Management.
7. Revised Cardiac Risk Index (RCRI).
8. Postoperative visual loss.
9. Cardioplegia.
10. Hyperkalemia.

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

[MD 1224] **DECEMBER 2024** **Sub. Code: 4026**
(OCTOBER 2024 EXAM SESSION)

M.D. DEGREE EXAMINATION

ANAESTHESIOLOGY

PAPER II – PRACTICE OF ANAESTHESIA: ANAESTHESIA IN RELATION TO ASSOCIATED SYSTEMIC AND MEDICAL DISEASES

Q.P. Code: 204026

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

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

1. Discuss in detail the anaesthetic management of a child with congenital heart disease with left to right shunt for elective non cardiac surgery.

2. Discuss in detail anaesthetic management of a patient with end stage renal disease (ESRD) with fracture femur posted for open reduction and internal fixation (ORIF).

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

1. Diastolic dysfunction.
2. Postoperative pulmonary complication (PPC).
3. Intraoperative hypertensive crisis.
4. Post intubation croup.
5. Ludwigs's angina.
6. Perioperative acute kidney injury (AKI).
7. Negative pressure pulmonary edema.
8. Epidural anaesthesia in anticoagulated patients.
9. Peripartum cardiomyopathy.
10. Methyl alcohol poisoning.

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

[MD 0525] **MAY 2025** **Sub. Code: 4026**

M.D. DEGREE EXAMINATION

ANAESTHESIOLOGY

PAPER II – PRACTICE OF ANAESTHESIA: ANAESTHESIA IN RELATION TO ASSOCIATED SYSTEMIC AND MEDICAL DISEASES

Q.P. Code: 204026

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

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

1. Describe the Preoperative evaluation, Anaesthetic management and Postoperative care of Obese patient for Laparoscopic Cholecystectomy.

2. Define the glycemic goals and steps to achieve in type II Diabetes Mellitus. Discuss in detail the various Insulin preparations and the pharmacology.

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

1. Mendelson's syndrome.

2. Brain death.

3. Pulmonary hypertension.

4. Milrinone.

5. Pendelluft.

6. Adrenergic receptors.

7. Internal jugular vein cannulation.

8. Magnesium.

9. Ventricular tachycardia.

10. Thyroid functions tests.

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

[MD 1025] **OCTOBER 2025** **Sub. Code: 4026**

M.D. DEGREE EXAMINATION

ANAESTHESIOLOGY

PAPER II – PRACTICE OF ANAESTHESIA: ANAESTHESIA IN RELATION TO ASSOCIATED SYSTEMIC AND MEDICAL DISEASES

Q.P. Code: 204026

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

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

1. a) Describe in the detail about the pathophysiology of cirrhosis of the Liver and its systemic effects.
   b) Enumerate the detail of preoperative evaluation, risk stratification and perioperative management strategies for a patient with cirrhosis undergoing non-hepatic surgery.

2. Describe the physiological changes associated with aging and anaesthetic management of 70-year-old for Emergency Laparotomy Surgery.

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

1. Hyponatremia.
2. Myasthenia gravis.
3. Anaphylaxis.
4. Obesity Hypoventilation syndrome.
5. Wolff-Parkinson-White syndrome.
6. Deep Vein Thrombosis.
7. Trigeminal neuralgia.
8. Organophosphate poisoning.
9. Frailty.
10. Eclampsia.

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

[MD 0526] **MAY 2026** **Sub. Code: 4026**

M.D. DEGREE EXAMINATION

ANAESTHESIOLOGY

PAPER II – PRACTICE OF ANAESTHESIA: ANAESTHESIA IN RELATION TO ASSOCIATED SYSTEMIC AND MEDICAL DISEASES

Q.P. Code: 204026

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

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

1. Discuss the Anesthetic management of a patient with Mitral stenosis posted for caesarean section.

2. Discuss the causes, diagnosis and management of intraoperative cardiac dysrhythmias.

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

1. Postintubation laryngeal odema.

2. Preanesthetic preparation of chronic smokers.

3. Kyphoscoliosis- anaesthetic considerations.

4. Vasopressin in anaesthesia.

5. Anion gap.

6. Intracranial pressure monitoring.

7. Autonomic hyperreflexia.

8. Perioperative beta blocker therapy.

9. High altitude anaesthesia.

10. Pulmonary embolism.

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