April-2001

[KD 156] **Sub. Code : 2053**

M.D. DEGREE EXAMINATION.

(All Regulations)

Branch X — Anaesthesiology

Part I

MEDICINE APPLIED TO ANAESTHESIOLOGY

Time : Three hours Maximum : 100 marks

Answer ALL questions.

1. Discuss the causes and management of acute renal failure. (25)

2. Discuss the etiopathogenesis and treatment of a young female patient with Myasthenia Gravis. (25)

Write short notes on : (5 × 10 = 50)

(a) Hypokalaemia

(b) Ventilation perfusion ratio

(c) Treatment of paroxysmal supraventricular tachycardia

(d) Morphine receptors

(e) Treatment of cerebral edema.

[KE 156] **Sub. Code : 2053**

M.D. DEGREE EXAMINATION.

(All Regulations)

Branch X — Anaesthesiology

Part I

MEDICINE APPLIED TO ANAESTHESIOLOGY

Time : Three hours Maximum : 100 marks

Answer ALL questions.

1. Define hypo perfusion state. Outline the evaluation, rescusitation of a patient presenting in acute hypo perfusion state or shock. (25)

2. What is oxygen cascade? What are the various causes of hypoxemic in the perioperative period? Classify oxygen therapy devices and describe them. (15 + 10 = 25)

3. Short notes : (5 × 10 = 50)

(a) Basic Life Support.

(b) Post operative delirium.

(c) Differential diagnosis of perioperative oliguria.

(d) Acute respiratory acidosis.

(e) Intra–Operative ventricular ectopics.

March-2002

[KG 156] **Sub. Code : 2053**

M.D. DEGREE EXAMINATION.

(New/Revised Regulations)

Branch X — Anaesthesiology

Part I

MEDICINE APPLIED TO ANAESTHESIOLOGY

Time : Three hours / Maximum : 100 marks

Answer ALL questions.

1. Describe the pathophysiology of Myasthenia Gravis. Discuss the merits and demerits of muscle relaxants in relation to it. (25)

2. Discuss the patho-physiological changes in Mitral Stenosis and Anaesthetic management of closed Mitral Valvotomy. (25)

3. Write short notes on : (5 × 10 = 50)
   (a) Pickwickian syndrome.
   (b) Goldman's risk index score.
   (c) Oxygen flux.
   (d) Lorazepam.
   (e) Dextrans.

[KH 156] **Sub. Code : 2053**

M.D. DEGREE EXAMINATION.

(Revised Regulations)

Branch X — Anaesthesiology

Part I

MEDICINE APPLIED TO ANAESTHESIOLOGY

Time : Three hours Maximum : 100 marks

Answer ALL questions.

1. Discuss the current management strategies in acute bronchial asthma. (25)

2. What are the causes of hyperpyrexia? Discuss the presentation of hyperpyrexia and its clinical management. (25)

3. Write short notes on : (5 × 10 = 50)

(a) Nitric oxide

(b) Neuraxial opioids

(c) Brain preservation

(d) Clinical uses of evoked potentials

(e) Complications of blood transfusion.

April-2003

[KI 156] **Sub. Code : 2053**

M.D. DEGREE EXAMINATION.

(All Regulations)

Branch X — Anaesthesiology

Part I

MEDICINE APPLIED TO ANAESTHESIOLOGY

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

Answer ALL questions.

1. What are the causes of cardiac arrhythmias during general anaesthesia? How would you recognize and treat them? (25)

2. Discuss the functions of the liver, with the tests and their relevance to anaesthesia. (25)

3. Write short notes on : (5 × 10 = 50)

   (a) Bronchodilators

   (b) Verapamil

   (c) Metabolic acidosis

   (d) Duchenne's muscular dystrophy

   (e) Pulmonary embolism.

[K.J 156] Sub. Code : 2053

M.D. DEGREE EXAMINATION.

(All Regulations)

Branch X — Anaesthesiology

Part I

MEDICINE APPLIED TO 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

MCQ 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) Define brain death. Write the causes of brain death. What are the prerequisites and diagnostic tests to confirm brain death?

(b) Describe the hazards of long term cortisone therapy. How will you manage such cases under anaesthesia? (2 × 15 = 30)

2. (a) Neurogenic pulmonary oedema.

(b) Resuscitation of the new born.

(c) Anaphylactic drug reactions.

(d) Write notes on pendulluft.

(e) Method of doing fluid challenge test.

(f) Amiodarone.

(g) Nosocomial infections and safety measures.

(h) Infective Endocarditis prophylaxis.

(i) Tension pneumothorax and anaesthetic implications.

(j) How will you treat Hyperkalaemia? (10 × 5 = 50)

[KL 156] **Sub. Code : 2053**

M.D. DEGREE EXAMINATION.

(All Regulations)

Branch X — Anaesthesiology

Part I

MEDICINE APPLIED TO 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 : (2 × 15 = 30)

(1) Define obesity and morbid obesity. Discuss the physiological changes and anaesthetic concerns in morbidly obese patients.

(2) Discuss the etiology, pathophysiology, clinical features and management of Acute Respiratory distress Syndrome.

II. Short notes : (10 × 5 = 50)

(a) Nitric oxide

(b) Hyponatremia

(c) Acute Normo Volemic Hemodilution

(d) Opioid Receptors

(e) Airway assessment

(f) Preoxygenation

(g) Swan Ganz catheter

(h) Allen test

(i) Negative pressure pulmonary oedema

(j) Cerebral autoregulation.

———