

April-1996

[AK 163]

M.D. DEGREE EXAMINATION.

Branch X — Anaesthesiology

(Revised Regulations)

Part II

Paper III — ANAESTHESIOLOGY INCLUDING CRITICAL
CARE AND RECENT ADVANCES IN ANAESTHESIOLOGY

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

1. Discuss the pathogenesis and management of adult respiratory distress syndrome. (25)
2. Discuss the role of anaesthesiologist in management of chronic pain in cancer patients. (25)
3. Write briefly on : (5 × 10 = 50)
 - (a) Trans oesophageal echocardiography.
 - (b) Advances in cardiopulmonary resuscitation.
 - (c) Merits and demerits of using laryngeal mask airway.
 - (d) Pulmonary capillary wedge pressure.
 - (e) Magnesium sulfate.

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M.D. DEGREE EXAMINATION
Branch X - Anaesthesiology
(Revised Regulations)
Part II

Paper III - ANAESTHESIOLOGY INCLUDING CRITICAL
CARE AND RECENT ADVANCES IN
ANAESTHESIOLOGY

Time: Three hours

Max. marks: 100

Answer All Questions

1. A 50 year old obese patient is posted for laparoscopic cholecystectomy - discuss in detail the anaesthetic management. (25)
2. Discuss the assessment of airway and the recent trends in the management of a difficult airway. (25)
3. Write briefly on:
 - (a) Hypoxic pulmonary vaso constriction
 - (b) Anaesthesia for intra ocular lens placement
 - (c) Management of acute post-operative pain relief
 - (d) Legal and ethical issues of brain death.
 - (e) Methods for identifying epidural

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PK 147

M.D. DEGREE EXAMINATION
Branch X - Anaesthesiology
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Part II

Paper III - ANAESTHESIOLOGY INCLUDING CRITICAL
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ANAESTHESIOLOGY

Time: Three hours

Max.marks:100

Answer All Questions

1. A 60 year old obese patient is posted for laparoscopic cholecystectomy - discuss in detail the anaesthetic management. (25)
2. Discuss the assessment of airway and the recent trends in the management of a difficult airway. (25)
3. Write briefly on:
 - (a) Hypoxic pulmonary vaso constriction
 - (b) Anaesthesia for intra ocular lens placement
 - (c) Management of acute post-operative pain relief
 - (d) Legal and ethical issues of brain death.
 - (e) Methods for identifying epidural space. (5x10=50)

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MP 152

M.D. DEGREE EXAMINATION

Branch X - Anaesthesiology
(Revised Regulations)

Part II

Paper III - ANAESTHESIOLOGY INCLUDING CRITICAL
CARE AND RECENT ADVANCES IN
ANAESTHESIOLOGY

Time: Three hours

Max. marks: 100

Answer All Questions

1. Describe the anaesthetic and post-operative management of a patient with severe pregnancy-induced hypertension (PIH) posted for emergency caesarean section. (25)
2. Describe the pathophysiology of Adult (Acute) Respiratory Distress Syndrome (ARDS). (25)
3. Write briefly on:
 - (a) Local anaesthetic block of the penis for circumcision
 - (b) Anaesthesia for post-tonsillectomy bleeding
 - (c) Pressure support ventilation
 - (d) Role of calcium in cardio-pulmonary resuscitation (CPR)
 - (e) Intercostal analgesia (5x10=50)

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MS 152

M.D. DEGREE EXAMINATION
Branch X - Anaesthesiology
(Revised Regulations)

Part II

Paper III - ANAESTHESIOLOGY INCLUDING
CRITICAL CARE AND RECENT ADVANCES
IN ANAESTHESIOLOGY

Time: Three hours

Max.marks:100

Answer All Questions

1. Discuss the preoperative evaluation and preparation of a patient with chronic renal failure for renal transplantation. Outline your anaesthetic management. (25)
2. What is the role of out patient anaesthesia in paediatric practice? How will you assess the patient and what are the different anaesthetic techniques employed? (25)
3. Write briefly on:
 - (a) Intra aortic balloon pump
 - (b) Pressure support ventilation
 - (c) Total parenteral nutrition
 - (d) Anion gap
 - (e) Patient controlled analgesia.

(5x10=50)

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M.D. DEGREE EXAMINATION.

Branch X — Anaesthesiology

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Part II

Paper III — ANAESTHESIOLOGY INCLUDING
CRITICAL CARE AND RECENT ADVANCES IN
ANAESTHESIOLOGY

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

1. Describe the relevance and techniques of autologous blood transfusion. (25)
2. Describe the various techniques of weaning a patient from mechanical ventilation of the lungs. (25)
3. Write notes on : (5 × 10 = 50)
 - (a) Myocardial protection during cardio-pulmonary bypass.
 - (b) Interpleural analgesia.
 - (c) Direct current defibrillation in cardiac arrest.
 - (d) Opioids in chronic pain.
 - (e) Mivacurium.

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[SM 159]

M.D. DEGREE EXAMINATION

Branch X — Anaesthesiology

(Revised Regulations)

Part II

Paper III — ANAESTHESIOLOGY INCLUDING CRITICAL CARE AND RECENT ADVANCES IN ANAESTHESIOLOGY

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

1. Discuss in detail the anaesthetic management of a case of brain tumour for "posterior cranial fossa" exploraticis. Discuss the complications and current controversies in the management. (25)
 2. Describe the various complications which may occur in ICU in patients on prolonged ventilative and monitoring. (25)
 3. Write notes on : (5 × 10 = 50)
 - (a) Inverse ratio ventilation
 - (b) Percutaneous tracheotomy
 - (c) TIVA
 - (d) Thyroid crisis
 - (e) Non ketotic hyperosmolar coma.
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[SG 159]

Sub. Code : 2042

M.D. DEGREE EXAMINATION.

Branch X — Anaesthesiology

(Revised Regulations)

Part II

Paper III — ANAESTHESIOLOGY INCLUDING
CRITICAL CARE AND RECENT ADVANCES IN
ANAESTHESIOLOGY

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

1. A 30 year old patient is admitted to the emergency room within an hour of a cobra bite over his foot. Discuss how you would assess this patient for potential complications. Outline your plan for the intensive care management of this patient. (10 + 15 = 25)

2. A victim of polytrauma with deep bruises over the face and anterior part of the chest and abdomen is brought to the emergency room. Discuss your plan for the assessment of this patient for potential life-threatening complications and outline your management of such complications. (10 + 15 = 25)

3. Write briefly on : (5 × 10 = 50)

(a) Patient controlled analgesia

(b) Energy-based defibrillation versus current-based defibrillation

(c) Detection and management of significant venous air embolism during posterior cranial fossa surgery in the sitting position

(d) Rocuronium bromide

(e) Raman spectroscopy.

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[KA 159]

Sub. Code : 2042

M.D. DEGREE EXAMINATION.

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Branch X — Anaesthesiology

Part II

Paper III — ANAESTHESIOLOGY INCLUDING
CRITICAL CARE AND RECENT ADVANCES IN
ANAESTHESIOLOGY

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

1. Discuss the anaesthetic management of perforating eye injury in a 3 year old male child for surgery. (25)
 2. Discuss the intensive care management of a 50 year unconscious male coming with severe head injury with fracture both maxilla, mandible and base of the skull with diagnosis of diffuse axonal injury. (25)
 3. Write short notes on : (5 × 10 = 50)
 - (a) Predictors of a difficult tracheal intubation
 - (b) APACHE II Score
 - (c) Closing volume of the lungs and its measurement
 - (d) Laser surgery and anaesthetic management
 - (e) Mass spectrometry.
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April-2000

[KB 159]

Sub. Code : 2058

M.D. DEGREE EXAMINATION.

(Revised Regulations)

Branch X — Anaesthesiology

Part II

Paper III — ANAESTHESIOLOGY INCLUDING
CRITICAL CARE AND RECENT ADVANCES IN
ANAESTHESIOLOGY

Time : Three hours ~~100~~ 2000 Maximum : 100 marks

1. Discuss the organization of hospital services to manage mass casualties due to train accident in your locality. (25)
 2. Discuss the modalities of pain management in a patient with inoperable carcinoma of head of pancreas. (25)
 3. Write short notes on : (5 × 10 = 50)
 - (a) Metabolic acidosis
 - (b) Pressure support ventilation
 - (c) Extra-corporeal membrane oxygenation
 - (d) Anaesthesia in sitting position
 - (e) Intrathecal neostigmine.
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October-2000

[KC 159]

Sub. Code : 2058

M.D. DEGREE EXAMINATION.

Branch X— Anaesthesiology

(Revised Regulation)

Part II

Paper III — ANAESTHESIOLOGY INCLUDING
CRITICAL CARE AND RECENT ADVANCES IN
ANAESTHESIOLOGY

Time : Three hours ~~SEP 2000~~ Maximum : 100 marks

Answer ALL questions.

1. Describe the management of "Organophosphorus-poisoning", and role of Anaesthesiologist in the "critical care" of these patients. (25)
 2. Describe the anaesthetic implications in the management of "Difficult-air-way". Add a note on the "Newer-trends" in the management. (25)
 3. Write short notes on : (5 × 10 = 50)
 - (a) Newer Inhalational agents.
 - (b) Day care anaesthesia.
 - (c) Newer trends in C.P.R. (Cardiopulmonary Resuscitation)
 - (d) Neuro-muscular-monitoring.
 - (e) Total-Intravenous-Anaesthesia (TIVA).
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