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# MD (ANAESTHESIOLOGY) DEGREE EXAMINATION – APRIL 2016 SUBJECT: PAPER I: BASIC SCIENCES AS APPLIED TO ANAESTHESIOLOGY

Monday, April 18, 2016

Time: 14:00 – 17:00 Hrs.

Max. Marks: 100

- Answer ALL the questions.
- ∠ Long Essays:
- 1. Describe the ventricular function of the heart with appropriate diagrams. Briefly explain the factors affecting the ventricular performance.

(15 marks)

2. Describe briefly the regulation of Acid Base Balance. Discuss the anion gap approach to investigate metabolic disturbances.

(15 marks)

- 3. Write short notes on:
- 3A. Bain's Circuit
- 3B. Double burst Stimulation
- 3C. Oxygen Dissociative Curve
- 3D. Clonidine
- 3E. Chiral Local Anaesthetics
- 3F. Liver Function Tests
- 3G. Beer Lambert's Law
- 3H. FRC v/s Closing Capacity
- 3I. Etomidate
- 3J. Gasserion ganglion

 $(7 \text{ marks} \times 10 = 70 \text{ marks})$ 

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## MD (ANAESTHESIOLOGY) DEGREE EXAMINATION - APRIL 2016

SUBJECT: PAPER II: ANAESTHESIA IN RELATION TO ASSOCIATE SYSTEMIC DISEASES

Tuesday, April 19, 2016

Time: 14:00 - 17:00 Hrs.

Max. Marks: 100

#### Ø Answer ALL the questions.

#### Long Essays: Ø

1. Classify anti-hypertensives. Describe the etiology and management of intraoperative Hypertension.

(15 marks)

2. What is oculocardiacreflex? Describe the pathway. How do you prevent and treat it.

(15 marks)

#### **Short Questions:** 3.

- 3A. Pathophysiology of HELLP syndrome
- 3B. Anaesthetic management of manual removal of placenta
- 3C. Hypotensive anaesthesia for FESS surgery
- 3D. Anaesthetic management of 5 yr old child with post tonsillectomy bleed
- 3E. Anaesthetic management of extraction of wisdom teeth
- 3F. Management of a 2 yr old patient with 35% burns for dressing
- 3G. MELD Scoring in patients with liver disease
- 3H. Shivering during labour analgesia
- 3I. Rectus sheath block
- 3J. Thyroid Function Tests

 $(7 \text{ marks} \times 10 = 70 \text{ marks})$ 

### MD (ANAESTHESIOLOGY) DEGREE EXAMINATION – APRIL 2016

SUBJECT: PAPER III: ANAESTHESIA IN RELATION TO SUB SPECIALITIES

Wednesday, April 20, 2016

Time: 14:00 – 17:00 Hrs.

Max. Marks: 100

- Answer ALL the questions.
- Answer to the point as padding of answers will not fetch extra marks.
- **∠** Illustrate your answer with diagrams where appropriate.

#### ∠ Long Essays:

1. Describe the perioperative anaesthetic management of a 55-year old man, diagnosed case of chronic obstructive airway disease (smoker of 2 packets of cigarettes per day since 30 years) scheduled for elective cholecystectomy for gallstones.

(15 marks)

2. Discuss the preoperative evaluation and anesthetic management of a 1-day old neonate posted for repair of congenital diaphragmatic hernia.

(15 marks)

#### 3. Write briefly on:

- 3A. Management of perioperative supraventricular arrhythmias
- 3B. Pathophysiology and anaesthetic implications of mitral stenosis
- 3C. Physiological and adverse effects of inflation and deflation of pneumatic lower limb tourniquet
- 3D. Management of raised intracranial pressure in a patient with traumatic brain injury
- 3E. Anaesthetic management of an 80-year old patient posted for transurethral resection of the prostate
- 3F. Anaesthetic considerations in a post-cardiac transplant patient undergoing elective noncardiac surgery
- 3G. Anaesthetic management of a 2-year old child weighing 10 kilograms with intestinal obstruction due to roundworm infestation
- 3H. Discuss drugs used (with routes, doses and relative merits/demerits) for premedication in children
- 3I. Discharge criteria for day care surgery
- 3J. Objectives of monitored anesthesia care

 $(7 \text{ marks} \times 10 = 70 \text{ marks})$ 



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## MD (ANAESTHESIOLOGY) DEGREE EXAMINATION – APRIL 2016

## SUBJECT: PAPER IV: INTENSIVE CARE MEDICINE, PAIN MEDICINE AND RECENT ADVANCES

Thursday, April 21, 2016

Time: 14:00 - 17:00 Hrs.

Max. Marks: 100

- Answer ALL the questions.
- ∠ Long Essays:
- 1. Discuss the management of atrial fibrillation according to AHA/ACC/HRS guidelines 2014.

(15 marks)

2. Enumerate the etiology and management of chronic back ache.

(15 marks)

- 3. Short Questions:
- 3A. Current role of vasopressors in septic shock
- 3B. Percutaneous tracheostomy and it's complications
- 3C. Intubating strategies in Temporomandibular ankylosis
- 3D. Adult Stroke algorithm
- 3E. Indications and contraindications for the use of trans esophageal echocardiography
- 3F. Mean, Mode, Median and Standard deviation
- 3G. Role of Magnesium in critical care
- 3H. Flail chest
- 3I. Ventilator associated pneumonia
- 3J. Xenon in Anesthesia

 $(7 \text{ marks} \times 10 = 70 \text{ marks})$