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MANIPAL UNIVERSITY

PG DIPLOMA IN ANAESTHESIOLOGY (DA) EXAMINATION - APRIL 2014

SUBJECT: PAPER I: BASIC SCIENCES AS APPLIED TO ANAESTHESIOLOGY: ANATOMY, PHYSIOLOGY, PHARMACOLOGY AND BIOCHEMISTRY, ETHICS, QUALITY ASSURANCE, MEDICOLEGAL ASPECTS

Tuesday, April 01, 2014

Time: 14:00 - 17:00 Hrs.

Max. Marks: 100

Health Sciences Library

1. Describe in brief the physiology of nerve transmission and mechanism of action of local anaesthetics. Compare and contrast bupivacaine and Ropivacaine.

(15 marks)

2. Describe with a neat labelled diagram the anatomy and physiology of autonomic nervous system. Describe the pharmacology and clinical uses of Nor epinephrine.

(15 marks)

- 3. Write short notes on:
- 3A. Describe Boyle's law and its applications in anaesthesia
- 3B. Context sensitivity half time
- 3C. Rocuronium
- 3D. Describe oxygen dissociation curve and factors affecting it
- 3E. Factors affecting cerebral Autoregulation
- 3F. Venturi phenomenon
- 3G. Etomidate
- 3H. Functional Residual Capacity and its significance in anaesthesia
- 3I. Describe the physiological changes in high altitude
- 3J. Properties of nitrous oxide and its uses

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

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MANIPAL UNIVERSITY

PG DIPLOMA IN ANAESTHESIOLOGY (DA) EXAMINATION – APRIL 2014 SUBJECT: PAPER II: PRINCIPLES AND TECHNIQUES OF ANAESTHESIA INCLUDING REGIONAL ANAESTHESIA

Wednesday, April 02, 2014

Time: 14:00 - 17:00 Hrs.

Max. Marks: 100

Health Sciences Library

1. Describe the anaesthetic management of endovascular coiling of middle cerebral artery aneurysm.

(15 marks)

2. Describe the management of a neonate with tracheo-oesophageal fistula posted for surgery.

(15 marks)

- 3. Write short notes on:
- 3A. One lung ventilation
- 3B. Describe the management of Atrial Fibrillation
- 3C. DIC
- 3D. TAP block
- 3E. Preparation for awake fibreoptic intubation
- 3F. Anaesthetic implications of laparoscopic surgeries
- 3G. Risk stratification in anesthesia for patients with IHD
- 3H. Ankle Block
- 3I. Criteria for brain death
- 3J. Analgesic nephropathy

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

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MANIPAL UNIVERSITY

PG DIPLOMA IN ANAESTHESIOLOGY (DA) EXAMINATION – APRIL 2014 SUBJECT: PAPER III: ANAESTHESIA IN RELATION TO ASSOCIATED SYSTEMIC DISEASES, INTENSIVE CARE MEDICINE, PAIN MEDICINE

Thursday, April 03, 2014

Time: 14:00 - 17:00 Hrs.

Max. Marks: 100

1. Describe the physiological changes due to aging and the problems in the anaesthetic management of geriatric patient.

Health Sciences Library

(15 marks)

2. Describe the ACLS 2010 guidelines.

(15 marks)

- 3. Write short notes on:
- 3A. Weaning modes of ventilators
- 3B. Modalities of pain relief for a patient with Ca cervix
- 3C. Auto-Peep
- 3D. Massive blood transfusion
- 3E. Management of chronic Back Ache
- 3F. Glasgow coma scale
- 3G. Stellate ganglion block
- 3H. Blood Loss Assessment in Polytrauma
- 3I. Trans cutaneous nerve stimulation
- 3J. Ventilator associated pneumonia

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