Rajiv Gandhi University of Health Sciences, Karnataka

Post Graduate Degree Examination – May 2013

Time: Three Hours **Max. Marks: 100 Marks**

MD ANAESTHESIOLOGY

PAPER – I (Revised Scheme)

Q.P. CODE: 7291

Your answers should be specific to the questions asked
Draw neat labeled diagrams wherever necessary

LONG ESSAYS **2 x 20 = 40 Marks**

1. Describe the physiology of neuromuscular junction. What is the mechanism of action of non-depolarising muscle relaxants? Briefly describe how atracurium is metabolised in the body.
2. With the help of schematic diagrams classify breathing circuits under Mapleson system of classification. What are the advantages and disadvantages of Bain circuit? Describe the functional analysis of Bain circuit during spontaneous and controlled ventilation.

SHORT ESSAYS **6 x 10 = 60 Marks**

Double burst stimulation

Boyle's law and its anaesthetic applications

Alpha-2 agonists in anaesthesia

Effect of volatile anaesthetics on cerebral perfusion pressure

First public demonstration of ether anaesthesia

Pathophysiology of negative pressure pulmonary oedema

FR. MULLER'S CENTRAL LIBRARY

*****

10

Rajiv Gandhi University of Health Sciences, Karnataka

Post Graduate Degree Examination – May 2013

Time: Three Hours

Max. Marks: 100 Marks

MD ANAESTHESIOLOGY

PAPER – II (Revised Scheme)
Q.P. CODE: 7292

Your answers should be specific to the questions asked
Draw neat labeled diagrams wherever necessary

LONG ESSAYS

2 x 20 = 40 Mar

1. Discuss the currently available techniques for *myocardial preservation* during coronary artery by-pass graft (CABG) surgery. Add a note on the management of specific problems encountered by the anaesthesiologist during *off-pump coronary artery bypas* ("OPCAB") surgery.
2. A 52-year-old woman with a bronchopleural fistula complicating a lung abscess (right lower lobe) with a persistent air leak is scheduled for a right lower lobectomy. Discuss your plan for preoperative evaluation and optimization. Discuss the plan for anaesthet management of this patient.

SHORT ESSAYS

6 x 10 = 60 Mark

3. Enumerate the anaesthetic concerns in a child scheduled to undergo squint surgery. Ad a note on management options available for postoperative nausea and vomiting.
4. Anaesthetic considerations in a patient scheduled for knee arthroscopy.
5. Discuss the anaesthetic management options available for emergency caesarean sectior for a patient with placental abruption.
6. Discuss the anaesthetic management for a patient with multiple fibroid uterus posted fo a myomectomy.
7. Discuss the perioperative anaesthetic management of a patient with fronto-temporal meningioma scheduled for excision of the same.
8. Discuss the anaesthetic management of a haemodynamically unstable patient with fracture pelvis scheduled for emergency fixation.

*****

DR. MULLER'S CENTRAL LIBRARY

//

Rajiv Gandhi University of Health Sciences, Karnataka

Post Graduate Degree Examination – May 2013

Time: Three Hours | Max. Marks: 100 Marks

MD ANAESTHESIOLOGY

PAPER – III (Revised Scheme)
Q.P. CODE: 7293

Your answers should be specific to the questions asked
Draw neat labeled diagrams wherever necessary

LONG ESSAYS — **2 x 20 = 40 Marks**

1. A 68 year old man with end stage renal disease on regular haemodialysis is scheduled for the fixation of fracture neck of femur. Describe preanaesthetic evaluation, preparation, intraoperative and postoperative management.

2. A 45 year old woman is scheduled to undergo total thyroidectomy for carcinoma thyroid. Discuss preoperative evaluation, intraoperative and postoperative management.

SHORT ESSAYS — **6 x 10 = 60 Marks**

3. General anaesthesia and respiratory tract infection in children

4. Anesthetic implications of magnetic resonance imaging (MRI) under general anaesthesia

5. Use of ultrasound in anaesthesia

6. Anaesthetic implications of procedures under LASER

7. Obstructive jaundice and anaesthesia

8. Sickle cell anaemia and anaesthesia

FR. MULLER CENTRAL LIBRARY

*****