Rajiv Gandhi University of Health Sciences, Karnataka

Post Graduate Degree Examination – May 2014

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 electrical and mechanical events during cardiac cycle.

2. Describe the mechanism of control of respiration.

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

3. Anatomy of the epidural space

4. Contraindications for succinyl choline (including reasons)

5. Somatosensory evoked potential monitoring

6. Pathophysiology of cardiac and haematologic dysfunction in liver cirrhosis

7. Compare and contrast i gel and LMA

8. Nitric oxide in clinical practice

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Rajiv Gandhi University of Health Sciences, Karnataka

Post Graduate Degree Examination – May 2014

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 Marks**

1. A 50-year old man with a 10 year old ball-in-cage prosthetic mitral valve, currently only on oral warfarin therapy, is scheduled for open nailing of a fracture of the right femoral shaft. Presently the patient has moderate effort tolerance. Discuss the anaesthetic concerns and perioperative management plan of this patient.
2. Discuss the perioperative anaesthetic management plan for a smoker with bronchogenic carcinoma posted for a right pneumonectomy.

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

3. Management of intraoperative myocardial ischaemia / infarction in a patient undergoing non-cardiac surgery.

4. A patient with high velocity road traffic accident presents to casualty with abrasions and contusions over neck and face. On evaluation he is drowsy but stable. He is scheduled for vascular repair and fixation of right femur. Discuss your perioperative anaesthetic management plan for the same.

5. Discuss the anaesthetic management options available for cervical encirclage.

6. Anaesthetic management of a term pregnant lady with gestational diabetes mellitus for Caesarean section.

7. Diagnosis and anaesthetic management of extradural haematoma.

8. A 68-year old male with ischaemic heart disease, hypertension, insulin dependent diabetes mellitus is scheduled for cataract extraction under monitored anaesthesia care. Discuss the various concerns and your plan of management for this patient.

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Rajiv Gandhi University of Health Sciences, Karnataka

Post Graduate Degree Examination – May 2014

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 72 year old man with obstructive jaundice is scheduled for whipple's procedure. Describe preanaesthetic evaluation, preparation, intraoperative and postoperative management.

2. Describe preoperative evaluation, intraoperative and postoperative management of a neonate scheduled for the repair of tracheoesophageal fistula.

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

3. Modern trends in obstetric analgesia

4. Management of mismatched blood transfusion under general anaesthesia

5. What are the nerves involved in three-in-one block. Describe how would you perform a three-in-one block.

6. Discuss about the problems associated with an adult patient undergoing device closure for atrial septal defect (ASD) in the cardiology procedure room.

7. Options for postoperative analgesia for an elderly patient who has undergone total hip replacement

8. TURP syndrome

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Rajiv Gandhi University of Health Sciences

M.D. Degree Examination - Oct/Nov 2014

[Time: 3 Hours] [Max. Marks: 100]

ANAESTHESIOLOGY

PAPER – I (Revised Scheme)

Q.P. CODE: 7291

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

LONG ESSAY **2 X 20 = 40 Marks**

1. Enumerate the gas laws. Discuss their application in anaesthesia.
2. What are the impurities that exist in nitrous oxide? Describe briefly how nitrous oxide is purified

SHORT ESSAY **6 X 10 = 60 Marks**

3. W T G Morton
4. Compound A
5. Cuffless pharyngeal sealers
6. Body mass index
7. Beta blockers
8. Soda lime

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Rajiv Gandhi University of Health Sciences, Karnataka

Post Graduate Degree Examination – Oct/Nov 2014

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 Marks**

1. A 69-year old patient is scheduled for an emergency laparotomy in view of possible intestinal perforation. This patient is a known case of ischaemic heart disease with a history of poor effort tolerance. He is on regular treatment with clopidogrel, aspirin and enalapril. Presently he has dyspnoea at rest, pulse rate 110/min, blood pressure 95/50 mmHg. Discuss the perioperative anaesthetic management plan for this patient. Add a note on the anaesthetic interaction of the drugs that patient is receiving.
2. Discuss the perioperative concerns, anaesthetic management options and your plan for management of a patient with thymoma scheduled for video-assisted thoracoscopic excision of the same.

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

3. Discuss the different techniques available for monitoring spinal cord function during scoliosis surgery.
4. Retrobulbar block.
5. Axillary brachial plexus block.
6. Discuss the failed intubation drill in obstetrics.
7. Discuss the problems and management options for a patient scheduled for sitting position neurosurgery.
8. Management of raised intracranial pressure.

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Rajiv Gandhi University of Health Sciences

M.D. Degree Examination - Oct/Nov 2014

[Time: 3 Hours] [Max. Marks: 100]

ANAESTHESIOLOGY

PAPER – III (Revised Scheme)

Q.P. CODE: 7293

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

LONG ESSAY **2 X 20 = 40 Marks**

1. Anaesthetic management of myasthenia gravis patient posted for thymectomy
2. Anaesthetic management of liver transplantation

SHORT ESSAY **6 X 10 = 60 Marks**

3. Anesthesia for extra ocular surgery
4. Bispectral index (BIS)
5. Hypoxic pulmonary vasoconstriction
6. Dissiminated intravascular coagulation (DIC
7. Classification of opioid drugs
8. Anaesthesia for laparoscopic surgery

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Rajiv Gandhi University of Health Sciences, Karnataka

Post Graduate Degree Examination – Oct/Nov 2014

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

MD ANAESTHESIOLOGY

PAPER – IV (Revised Scheme)
Q.P. CODE: 7294

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 clinical features and discuss the management of a young adult presenting with organophosphate compound poisoning.
2. Explain the term adult respiratory distress syndrome (ARDS). Discuss the aetiology and management of ARDS.

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

3. Outline Ventricular fibrillation algorithm.
4. Outline the criteria for establishing diagnosis of brain death.
5. WHO ladder for providing pain relief for chronic cancer pain.
6. Outline American Society of Anaesthesiologists (ASA) difficult airway algorithm.
7. Enumerate the various blood components. Briefly mention the indications for administering each of them.
8. Compare and contrast :

    a. Dopamine and Dobutamine

    b. Adrenaline and Nor adrenaline

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