Rajiv Gandhi University of Health Sciences, Karnataka

Post Graduate Degree Examination – JUNE 2016

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 physiologic mechanism of haemostasis. What are the anaesthetic implications of perioperative use of clopidogrel?
2. What is train of four stimulation? How do you interpret the findings of train of four stimulation? What are the clinical tests of postoperative neuromuscular recovery?

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

3. Intraoperative hypothermia
4. Functional residual capacity and closing volume
5. Formation and circulation of cerebrospinal fluid
6. Effect of Ketamine on cardiovascular, central nervous and respiratory systems
7. Management of hyperkalemia
8. James Young Simpson's contribution to anaesthesia

Rajiv Gandhi University of Health Sciences, Karnataka

Post Graduate Degree Examination – JUNE 2016

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 6-year-old child is scheduled correction of lumbar scoliosis. Discuss the perioperative anaesthetic concerns, management plan and postoperative pain management plan for the same. (20 marks)
2. Discuss the perioperative anaesthetic concerns, management options and your plan for management of a patient having rheumatic heart disease with a mitral stenosis with valve area 1.0 cm^2 in atrial fibrillation scheduled for mitral valve replacement surgery. Add a note on anaesthetic implications related to atrial fibrillation. (20 marks)

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

3. A patient on low molecular weight heparin is scheduled for patellar repair under epidural anaesthesia. Discuss the implications, concerns and management plan as per the recent guidelines.
4. Anaesthetic management of a patient scheduled for coronary angioplasty.
5. Lung isolation techniques.
6. Anaesthetic management of vitreo-retinal surgery.
7. the anaesthetic management options available for cervical encirclage.
8. Discuss the various cerebral protective measures available for a patient with traumatic brain injury.

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Rajiv Gandhi University of Health Sciences, Karnataka

Post Graduate Degree Examination – JULY 2016

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. Answer all questions

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

1. Write briefly the anesthetic management of one - day old child posted for TOF repair.
2. Discuss pre-op preparation and anaesthesia for renal recipient.

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

3. Anticoagulants and regional anaesthesia
4. Epidural anaesthesia
5. Thyroid storm
6. Anaesthetic management of a 70 yrs old with Carcinoma Larynx posted for total laryngectomy
7. Hepatorenal syndrome
8. Transoesophageal echocardiography

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Rajiv Gandhi University of Health Sciences, Karnataka

Post Graduate Degree Examination – JULY 2016

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. Answer all questions

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

1. Discuss limitations and hazards of MRI suite. Describe anaesthetic management of a 6 month, old child with hydrocephalus scheduled for MRI brain.
2. Write briefly about labour analgesia.

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

3. Awareness and anaesthesia
4. Delayed recovery
5. Non-invasive ventilation
6. Clonidine in anaesthesia and intensive care unit
7. Resuscitation of term pregnant patients
8. Pulse – oximetry – principles and applications

Rajiv Gandhi University of Health Sciences, Karnataka

Post Graduate Degree Examination – NOV 2016

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. Answer all questions

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

1. Discuss briefly the blood supply of brain & regulation of cerebral blood flow.
2. Discuss fat embolism in detail.

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

3. Boyle's law and its application
4. Temperature regulation
5. Pulmonary function tests
6. Lignocaine
7. Magill's contribution to anaesthesia
8. Oxygen transport & oxygen therapy

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Rajiv Gandhi University of Health Sciences, Karnataka

Post Graduate Degree Examination – NOV 2016

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. With the help of a neatly labeled diagram, discuss the cardiac catheterization findings of patent ductus arteriorus. Discuss anaesthetic concerns and management plan if a 3-year old child is scheduled for ligation of patent ductus arteriosus.
2. A 60-year old male with chronic obstructive pulmonary disease is on regular treatment with theophylline, terbutaline and corticosteroids. He is scheduled for laparoscopic cholecystectomy. On evaluation, extensive bilateral rhonchi are found and arterial oxygen and carbon dioxide tensions (while breathing room air) are 54 and 62 mmHg respectively. Discuss your plan for preoperative evaluation and optimization. Discuss the plan for anaesthetic management of this patient.

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

3. Anaesthetic management plan for a 5-year old child with full stomach scheduled for emergency repair of cornea.
4. Anaesthetic implications related to Tourniquet.
5. Discuss the anaesthetic management options available for emergency caesarean section for a patient with placenta praevia.
6. Discuss the perioperative anaesthetic management of a patient with intradural, extramedullary neurofibroma in C_{5-6} area scheduled for excision of the same.
7. Autonomic hyperreflexia.
8. Perioperative β-blocker therapy for ischaemic heart disease patients.

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Rajiv Gandhi University of Health Sciences, Karnataka

Post Graduate Degree Examination – NOV 2016

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 65 year old male patient with chronic renal failure is scheduled for renal transplantation. Discuss preoperative evaluation, intraoperative and postoperative management.
2. A 50 year old woman who is a known diabetic on oral hypoglycaemic agents for the past 25 years presents with gangrene of the left foot. On examination, she is disoriented with moderate dehydration. Heart rate-125/minute, arterial blood pressure 140/90 mmHg, sodium -106 mEq/ L, potassium- 2.5 mEq/L, blood sugar-580mg/dl, arterial blood gas analysis shows, PaO_2-80 mmHg on room air, pH-7.22, $PaCO_2$- 28 mmHg. Describe your plan for preoperative preparation and intraoperative management of this patient scheduled for emergency debridement.

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

3. Describe the options available at providing analgesia to 4 year old child after orchidopexy.
4. Discuss the anaesthetic management of a 22 year old man posted for the excision of phaeochromocytoma
5. Define massive blood transfusion. Describe the complications of massive blood transfusion.
6. Postoperative cognitive dysfunction in the elderly.
7. Describe the intraoperative management of an 8 year old child weighing 15 kg posted for adenotonsillectomy.
8. Describe the various techniques of blocking the brachial plexus.

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Rajiv Gandhi University of Health Sciences, Karnataka

M.D. Degree Examination - NOV 2016

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

ANAESTHESIOLOGY

PAPER – IV (Revised Scheme)

Q.P. CODE : 7294

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. Describe the technique of performing lumbar sympathetic neurolytic block in a patient with Burger's disease
2. Describe briefly various patient interactive modes of ventilation

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

3. Physiological anaemia of pregnancy
4. Ozone therapy
5. Spinal cord stimulation
6. Serum lactate
7. Therapeutic hypothermia
8. Gate control theory of pain

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