

**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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**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 arteriosus. 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<sub>5-6</sub> area scheduled for excision of the same.
7. Autonomic hyperreflexia.
8. Perioperative  $\beta$ -blocker therapy for ischaemic heart disease patients.

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**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<sub>2</sub>-80 mmHg on room air, pH-7.22, PaCO<sub>2</sub>- 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**  
**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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