Rajiv Gandhi University of Health Sciences

Post-Graduate Diploma Examination - Nov 2013

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

DIPLOMA IN ANAESTHESIOLOGY (D.A)

PAPER – I (Old Scheme)

Q.P. CODE: 7001

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 anatomy of the Broncho Pulmonary Segments and its relevance to Ventilation: Perfusion in various postures
2. Describe in detail about the Cardiac Cycle and various Factors Influencing the Cardiac Output

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

3. Describe in detail about the closed circuit and its Functional Evaluation
4. Describe the pharmacology of Suxamethonium Hydrochloride
5. Describe the Neuromuscular Junction Monitoring under Anaesthesia
6. Describe in detail about the Various Laryngoscope Blades
7. Anatomical differences in paediatric Airway and its Implications
8. Enumerate the safety features in Boyle's Apparatus

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Rajiv Gandhi University of Health Sciences, Karnataka

Post Graduate Diploma Degree Examination – Nov 2013

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

DIPLOMA IN ANAESTHESIOLOGY

PAPER – I (Revised Scheme)
Q.P. CODE: 7011

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

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

1. Describe with the help of diagram, the anatomy and physiology of neuromuscular junction.
2. What are the factors affecting output from an anaesthetic vaporiser? What is pumping effect and pressurising effect? What are the features incorporated in vaporisers to minimise these effects?

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

3. Describe laminar flow and turbulent flow. Discuss the factors that affect laminar flow through a parallel sided tube.
4. Classify local anaesthetic agents. Compare and contrast Ropivacaine and Bupivacaine.
5. Draw a labelled diagram of the circle of Willis. Outline the factors affecting the cerebral perfusion pressure.
6. With the help of a diagram, define the static lung volumes and capacities in a normal 70-kg adult male.
7. Describe the signs and symptoms of postdural puncture headache (PDPH). Outline the aetiology, prevention and treatment of PDPH.
8. Describe the indications, technique and complications of penile block.

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Rajiv Gandhi University of Health Sciences, Karnataka

Post Graduate Diploma Degree Examination – <<>>

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

DIPLOMA IN ANAESTHESIOLOGY

PAPER – I (Revised Scheme)
Q.P. CODE: 7011

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

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

1. Discuss the role played by the major arteries, arterioles, capillaries and major veins in the maintenance of circulatory function and blood pressure regulation.
2. Describe the anatomy of larynx. Explain superior laryngeal nerve block.

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

3. With appropriate examples, describe the meanings of the terms agonist, competitive antagonist, non competitive – antagonist, mixed agonist antagonist and inverse agonist.
4. List the drugs (with dosages) that can be used to treat bronchospasm. Describe their mechanism of action.
5. Describe the physical principles underlying temperature monitoring in anaesthetic practices.
6. Describe the anatomy and technique of performing ankle block.
7. Define and explain the anaesthetic implications of Laplace's law and Hagen Poiseuille's law.
8. History of Ether anaesthesia

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Post-Graduate Diploma Examination - Nov 2013

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

DIPLOMA IN ANAESTHESIOLOGY (D.A)

PAPER – II (Old Scheme)

Q.P. CODE : 7002

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. Discuss perioperative management of acute oliguria and prevention of acute renal failure
2. Discuss in detail anaesthetic management of a 45 year old patient with severe bronchial asthma posted for laparoscopic cholecystectomy

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

3. What are risk factors associated with venous air embolism. Enumerate the preventive measures and management of pulmonary air embolism intraoperatively
4. A 70 yr old patient with cellulitis of left lower limb is having diabetic keto acidosis and is posted for above knee amputation. Discuss anaesthetic management
5. Discuss cardiac risk stratification in ischaemic heart diseases of patients posted for non cardiac surgery
6. What are the principals of anaesthesia in day care surgery and enumerate the discharge criteria
7. Describe fasting guidelines for paediatric patients and discuss the problems of anaesthesia in a one day old neonate with congenital diaphragmatic hernia
8. Enumerate the common causes of hyperkalaemia and its management

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Rajiv Gandhi University of Health Sciences

Post-Graduate Diploma Examination – Nov 2013

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

DIPLOMA IN ANAESTHESIOLOGY (D.A)

PAPER – II (Revised Scheme)

Q.P. CODE : 7012

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 Anatomical and Physiological Changes in Pregnancy and their Anaesthetic implications.
2. Discuss the sitting position in Neurosurgical procedures. Its associated complications and management.

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

3. Hypoxic pulmonary vasoconstriction
4. Occulocardiac reflex
5. Hepatorenal syndrome
6. What are Rate Pressure Product and Triple index.
7. Anaesthetic management of Tracheo-oesophageal fistulae in a neonate.
8. Complications of Tourniquet.

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Rajiv Gandhi University of Health Sciences

Post-Graduate Diploma Examination – Nov 2013

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

DIPLOMA IN ANAESTHESIOLOGY (D.A)

PAPER – III (Old Scheme)

Q.P. CODE : 7003

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. Discuss anaesthetic management in a 70 yr old male with carcinoma of buccal mucosa posted for radical neck dissection
2. A 4 yr old child is posted for emergency removal of foreign body in the right main bronchus. Discuss anaesthetic management

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

3. Discuss anaesthetic management of penetrative eye injury in children
4. Discuss briefly nutritional support in the perioperative period and compare parenteral versus enteral nutrition
5. Discuss the anaesthetic implications in an anticoagulated patient during elective and emergency surgeries
6. What are the criteria to determine brain death. Describe the tests adopted to confirm the same. Briefly describe anaesthetic management for organ retrieval
7. Describe the management of a case of diabetic ketoacidosis in the intensive care unit
8. Discuss the role of anaesthesiologists in burns

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Rajiv Gandhi University of Health Sciences, Karnataka

Post Graduate Diploma Degree Examination – Nov 2013

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

DIPLOMA IN ANAESTHESIOLOGY

PAPER – III (Revised Scheme)
Q.P. CODE: 7013

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

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

1. Discuss the anaesthetic concerns and management plan for a child scheduled for adenotonsillectomy. Add a note on post-tonsillectomy bleed.
2. Discuss the symptomatology, clinical manifestations, diagnosis and management of diabetic ketoacidosis.

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

3. Discuss the changes in the respiratory and cardiovascular system in a patient aged 70 years.
4. A 2-year old child is scheduled for a magnetic resonance imaging (MRI) for possible spinal cord anomaly. Discuss your plan for management of the same.
5. Discuss the clinical features and management plan for a patient with barbiturate poisoning.
6. While you went for a morning walk, you happened to see someone lying unconscious by the side of the road. Describe the steps of basic life support that you would institute in this situation. Add a note on the common causes of cardiac arrest in adults.
7. Tracheal suctioning procedure in intensive care unit.
8. Discuss the clinical features and management options available for a victim of neurotoxic snakebite.

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