Rajiv Gandhi University of Health Sciences

M.D. Degree Examination – May 2010

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

ANAESTHESIOLOGY

BASIC SCIENCE in relation to ANAESTHESIA

PAPER – I (Old Scheme)

Q.P. CODE : 7281

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 with diagram the normal oxyhaemoglobin dissociation curve. Explain the factors affecting oxyhaemoglobin dissociation curve and its clinical significance
2. Define hypoxic pulmonary vasoconstriction and explain its physiological significance. Discuss the factors and therapeutic intervention that alter hypoxic pulmonary vasoconstriction and explain pulmonary vasoconstriction in one lung anaesthesia

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

3. Dibucaine number
4. Horace Wells
5. Univent tube
6. Blood gas solubility coefficient
7. Surfactant
8. Second gas affect

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Rajiv Gandhi University of Health Sciences

M.D. Degree Examination – May 2010

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

ANAESTHESIOLOGY

CLINICAL PRACTICE OF ANAESTHESIA

PAPER – II (Old Scheme)

Q.P. CODE : 7282

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. A 45 year old male with bronchiectasis of left lower lobe is scheduled for left lower lobotomy in the lateral position. Mention your technique of lung isolation. Discuss the technical detail of the clinical conduct of one lung ventilation including monitoring and optimization of gas exchange

2. A 40 year lady with dysfunctional uterine bleeding scheduled for abdominal hysterectomy gives history of breathlessness on minimal exertion. Her preoperative hemoglobin concentration of 5.5g/dl. Discuss the preoperative assessment, preparation anaesthetic management and post operative care

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

3. Myocardial preservation during open heart surgery

4. Oculocardiac reflex

5. Awareness during anaesthesia

6. Intraoperative bronchospasm

7. Methods used for reducing intracranial pressure

8. Diagnosis and treatment of fat embolism

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Rajiv Gandhi University of Health Sciences

M.D. Degree Examination – May 2010

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

ANAESTHESIOLOGY

CLINICAL PRACTICE OF ANAESTHESIA

PAPER – III (Old Scheme)

Q.P. CODE : 7283

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 the preanaesthetic evaluation and anesthetic problems in a patient with chronic renal failure
2. Describe the anesthetic implications of severe anemia

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

3. Liver function tests
4. Anesthetic implications in hypothyroidism
5. Coeliac plexus block
6. Postoperative oliguria
7. Hypocalcaemia
8. Anaesthetic problems in sickle cell disease

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Rajiv Gandhi University of Health Sciences

M.D. Degree Examination –May - 2010

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

ANAESTHESIOLOGY

PAPER – IV (Old Scheme)

Q.P. CODE : 7284

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 various positions for Anaesthesia and Surgery with a special mention about Obese patients and positioning.
2. Describe in detail about Hypotensive Anaesthesia.

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

3. ESMOLOL.
4. Perflurocarbons.
5. Eutectic Mixture of Local Anaesthetics.
6. Endotracheal Suction in an adult on ICU Ventilator.
7. Fat Embolism.
8. Pharmacodynamics of SEVOFLURANE.

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Rajiv Gandhi University of Health Sciences

M.D. Degree Examination – May 2010

[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. Describe the anatomy of the coronary circulation. How is coronary circulation regulated? Enumerate the major determinants of the myocardial oxygen consumption

2. Define functional residual capacity (FRC). Explain the importance of FRC in normal respiratory function. How is FRC measured? Enumerate the factors affecting FRC during general anaesthesia

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

3. Vocal cord palsies following thyroid surgery

4. Heat and Moisture Exchanger (HME)

5. Cardiovascular and respiratory effects of halothane, isoflurane and desflurane

6. Post Dural Puncture Headache (PDPH)

7. Oxygen dissociation curve (ODC)

8. Opiate receptors

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Rajiv Gandhi University of Health Sciences

M.D. Degree Examination – May 2010

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

ANAESTHESIOLOGY

PAPER – II (Revised Scheme)

Q.P. CODE : 7292

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 in detail the pre anaesthetic investigation, preparation and intra operative and post operative management of a patient with Hydatid Cyst of the Lung posted for Thoracotomy and removal of the cyst

2. Describe the management in detail of an 8 year child with post tonsillectomy bleeding posted for exploration

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

3. Bier's block

4. Walking epidural

5. Sellick's maneuver

6. Apgar score

7. Proseal LMA

8. Massive blood transfusion

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Rajiv Gandhi University of Health Sciences

M.D. Degree Examination – May 2010

[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. A 70 year old man on anti hypertensive drug and on oral hypoglycemic agents with an enlarged prostate is posted for TURP. Describe the pre anaesthetic preparation, intra operative and post operative management

2. Discuss in detail the management of 2 year old child posted for cleft palate repair including the post operative pain relief

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

3. Problems of dental chair anesthesia

4. Post extubation laryngospasm

5. Anaesthesia for A.V. fistulae in a chronic renal failure patient

6. Intercostal block

7. Post operative jaundice

8. Anaesthesia for retained placenta

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Rajiv Gandhi University of Health Sciences

M.D. Degree Examination – May 2010

[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. Management of a head injury patient in the critical care unit. Discuss the modalities that are followed to reduce the intracranial pressure

2. How do you assess autonomic neuropathy in a diabetic patient? Enumerate the various schedules available for intra operative glycaemic control

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

3. Ventricular fibrillation / pulse less ventricular tachycardia algorithm

4. MAO inhibitors

5. Amiodarone

6. Newer colloid solutions and blood substitutes

7. Patient controlled analgesia for chronic pain relief

8. Epidural haematoma and its management

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