Rajiv Gandhi University of Health Sciences, Karnataka

M.D. Degree Examination - 29-Jul-2021

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

ANAESTHESIOLOGY
PAPER – I (RS-2/RS-3)
Q.P. CODE : 7291

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

Answer All The Questions 10 X 10 = 100 Marks

1. Describe the mechanical events during a cardiac cycle. Discuss the factors regulating cardiac output.
2. Discuss the respiratory flow volume loop of emphysema and chronic bronchitis patients.
3. Liver function tests and their relevance.
4. What are the indications for haemodialysis in a patient with chronic kidney disease? Anaesthetic concern regarding haemodialysis.
5. Explain Bohr effects and double Bohr effects.
6. Explain the chemical reaction between carbon dioxide and sodalime. What is channeling in a carbon dioxide absorber and how can you minimize it.
7. Metabolism, excretion and clinical uses of cisatracurium.
8. What are the unique properties of desflurane compared to isoflurane? Write briefly on Tec 6 vaporiser.
9. Randomization in study design explain he importance and different types of randomization.
10. Write briefly on August Bier and his contributions to Anaesthesia.

_M.D. Degree Examination - 31-Jul-2021

Time: Three Hours Max. Marks: 100 Marks

ANAESTHESIOLOGY
PAPER – II (RS-2/RS-3)
Q.P. CODE: 7292

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

Answer all the Questions 10 x 10 = 100 Marks

1. Discuss anticoagulation and neuraxial blocks in obstetric patients.
2. Write about role in Hypotensive anaesthesia in Functional Endoscopic Sinus Surgery (FESS).
3. Discuss the etiology, diagnosis and management of fat embolism.
4. Discuss the etiology and treatment of intra operative cardiac arrhythmias.
5. Discuss the anaesthetic management of Strabismus Surgery in a 3 years old child.
6. Write a note on professional hazards in Anaesthesia practice.
7. Describe the anaesthetic services for Day Care Surgery. Briefly mention the selection and discharge criteria for Day Care Surgery Patient.
8. What are the post anaesthetic concerns in a patient with Myasthenia Gravis?
9. Management of diabetic Ketoacidosis.
10. Discuss the role of Anaesthesiologist in trauma care unit.

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Rajiv Gandhi University of Health Sciences, Karnataka

MD Degree Examination – 02-Aug-2021

Time: Three Hours | Max. Marks: 100 Marks

ANAESTHESIOLOGY
PAPER – III (RS-2/RS-3)
Q.P. CODE: 7293

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

Answer All The Questions | 10 X 10 = 100 Marks

1. Describe the preoperative evaluation, preparation, intraoperative and postoperative management of a 2-year-old child scheduled for the emergency bronchoscopic removal of foreign body in the trachea.
2. Discuss the preoperative evaluation, preparation, intraoperative and postoperative management of a 35-year-old man with phaeochromocytoma scheduled for the excision.
3. Autologous blood transfusion.
4. Current guidelines in ambulatory anaesthesia.
5. Postoperative laryngospasm.
6. Anaesthetic management of 45-year-old man with known chronic renal failure for A-V fistula in the upper limb.
7. Anaesthesia for modified electroconvulsive therapy.
8. Anaesthetic management of a 5-year-old child scheduled for adenotonsillectomy with history of recent respiratory tract infection. What extra precautions would you advocate to prevent postoperative respiratory complications in this child?
9. Enumerate the lower limb blocks. Describe the technique of femoral and sciatic block.
10. Intra aortic balloon pump.

MD Degree Examination – 04-Aug-2021

Time: Three Hours | Max. Marks: 100 Marks

ANAESTHESIOLOGY
PAPER – IV (RS-2/RS-3)
Q.P. CODE: 7294

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

Answer all the Questions | 10 X 10 = 100 Marks

1. Write about Gate control theory of Pain and its clinical applications.
2. Management of Hyperkalemia.
3. RICHMOND Agitation Sedation Scale (RASS).
4. Perioperative Anaphylaxis and its management.
5. Torsades de pointes Ventricular Tachycardia.
6. Write the principles of T.P.N (Total Parenteral Nutrition).
7. Q-SOFA SCORE.
8. Anion Gap.
9. Describe the management of Organophosphorous poisoning.
10. Entropy.

Rajiv Gandhi University of Health Sciences, Karnataka

M.D. Degree Examination - 12-Nov-2021

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

ANAESTHESIOLOGY
PAPER – I (RS-2/RS-3)
Q.P. CODE : 7291

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

Answer All The Questions 10 X 10 = 100 Marks

1. Describe liver function tests and anaesthetic importance.
2. Describe opiate receptors & mechanism of action of opioid drugs on various receptors.
3. Hagen – poiseullies law.
4. Oculo – cardiac reflex.
5. Remifentanil.
6. Ether Day.
7. Prostaglandins.
8. Enantiomers.
9. Describe heat loss mechanisms in paediatric patients and enumerate the mechanisms of maintaining core body temperature during anaesthesia.
10. Describe the physiological change during pregnancy and their clinical implications in anaesthesia practice.

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M.D. Degree Examination - 15-Nov-2021

Time: Three Hours Max. Marks: 100 Marks

ANAESTHESIOLOGY
PAPER – II (RS-2/RS-3)
Q.P. CODE: 7292

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

Answer all the Questions 10 x 10 = 100 Marks

1. Anaesthesic management of posterior cranial fossa tumour.
2. Discuss the role of Anaesthesiologists in Tourniquet applications.
3. Write a note on Systemic Inflammatory Response Syndrome (SIRS).
4. Causes of Hypercarbia during General Anaesthesia. Describe the effects of Hypercarbia and the steps to be taken to correct this.
5. Write a note on awareness during Anaesthesia and its medico-legal implications.
6. Write a note on Capnography and its uses.
7. Discuss the anaesthetic problems involved in obese patient.
8. Discuss the pathophysiology and early goal directed therapy in management of septic shock.
9. Causes and management of Postoperative Shivering.
10. Describe the anaesthetic plan in a primi in 2nd trimester posted for Emergency Laparoscopic Appendicectomy.

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Rajiv Gandhi University of Health Sciences, Karnataka

MD Degree Examination – 17-Nov-2021

Time: Three Hours | Max. Marks: 100 Marks

ANAESTHESIOLOGY
PAPER – III (RS-2/RS-3)
Q.P. CODE: 7293

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

Answer All The Questions | 10 X 10 = 100 Marks

1. Describe in detail the anaesthetic considerations in a 78-year male coming for obstructed hernia repair.
2. Discuss the pre-operative evaluation and anaesthetic management of a 12 years old boy posted for laparoscopic appendicectomy. Enumerate the complications of this procedure.
3. Thyroid storm.
4. Coronary stents and Anaesthesia.
5. Anaesthesia for 4 years child for correction of squint surgery.
6. Retrieval of cadaver organs for donation.
7. Robotic surgery and Anaesthesia.
8. Myocardial protection during cardio pulmonary bypass.
9. Neurolytic blocks in cancer pain management.
10. Blood substitutes.

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MD Degree Examination – 19-Nov-2021

Time: Three Hours | Max. Marks: 100 Marks

ANAESTHESIOLOGY
PAPER – IV (RS-2/RS-3)
Q.P. CODE: 7294

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

Answer all the Questions | 10 X 10 = 100 Marks

1. An young patient with Guillain-Bare Syndrome was admitted to Intensive Care Unit with respiratory failure, what is the line of management and what are the respiratory parameters you would like to monitor in this patient?
2. Discuss about Nutrition to the patients on ventilator in critical care unit.
3. Monitoring during Paediatric Surgery.
4. High Frequency Ventilation.
5. Visual Analogue Scale (VAS).
6. Discuss the management of a near drowning victim found unconscious on the sea beach and brought by police to you intensive care unit.
7. Management of Barbiturate poisoning in ICU.
8. Air Embolism-causes and treatment.
9. Brain death and its documentation.
10. What is Golden hour in a patient after trauma?

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