

SRI DEVARAJ URS ACADEMY OF HIGHER EDUCATION & RESEARCH

(A DEEMED TO BE UNIVERSITY)

Post Graduate Degree Examination – April/May - 2017

Time : 3 Hrs.

[Max. Marks : 100]

M.D. ANAESTHESIOLOGY

PAPER - I

Q.P Code : RS 3301

Your answers should be specific to the questions asked.

Draw neat labelled diagrams wherever necessary.

LONG ESSAY

10 X 10 = 100 Marks

1. Describe the anatomy of neuro muscular junction and physiology of neuro-muscular transmission. Classify neuro muscular blocking drugs.
2. Draw a label a diagram showing various lung volumes and capacities. Describe the importance of FRC in anaesthesia practice.
3. Describe oxygen dissociation curve. Describe Haldane effect and double bohr effect.
4. Describe the preoperative evaluation and various cardiac risk indices in coronary artery disease.
5. Describe the cerebral blood flow regulation. What are the effects of various drugs on the cerebral blood flow.
6. Describe hypoxic pulmonary vasoconstriction.
7. Supraglottic airway device.
8. Boyles law and its application in anesthesia.
9. Sir Ivan Magill.
10. a) Sugammadex
b) Levosimendan

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M.D. ANAESTHESIOLOGY

PAPER - II

Q.P Code :RS-3302

Your answers should be specific to the questions asked.

Draw neat labelled diagrams wherever necessary.

LONG ESSAY

10 X 10 = 100 Marks

1. Mention the complications of spinal anaesthesia. Discuss in detail about POPH with regards to etiology, pathophysiology and treatment.
2. Mediastinoscopy – Anesthetic implications.
3. What are the determinants of cardiac output. Discuss various non invasive methods of measuring cardiac output.
4. Anaesthesia management of patient with pituitary adenoma for transsphenoidal pituitary excision.
5. 35 weeks pregnant patients with BP. 200/130 mm og Hg with one episode of seizure for emergency LSCS. Discuss in detail about the anesthesia management.
6. Discuss in detail about measures of reducing autologous blood transfusion in scoliosis correction.
7. Anatomy of epidural space and various methods of identification.
8. Discuss in detail about child 4 yrs old coming for penetrating eye injury repair.
9. How will you prepare 75 yrs old patient diagnosed to have AF with uncontrolled ventricular response for elective lap cholecystectomy.
10. Causes of intraoperative hypercarbia and its management.

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PAPER - III

Q.P Code :RS-3303

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LONG ESSAY

10 X 10 = 100 Marks

1. Discuss the regulation of body temperature in a neonate. How do you prevent hypothermia in a neonate undergoing major abdominal surgery?
2. Describe the etiology, pathophysiology, diagnosis and management of hepatorenal syndrome.
3. Discuss the differential diagnosis and management of malignant hyperthermia.
4. What is thromboelastography? Draw and label a normal thromboelastogram. Discuss the anaesthetic significance.
5. What are the anatomical differences between an adult airway and paediatric airway. Briefly discuss the guidelines for management of the paediatric difficult airway.
6. Discuss the anaesthetic management and precautions during ENT LASER surgery.
7. Discuss the physiological changes in respiratory system occurring in old age and its implications in anaesthetic practice.
8. Discuss the role of anaesthesiologist in outpatient anaesthesia. What are the anaesthetic problems in outpatient anaesthesia?
9. Describe the indications, contraindications, technique and complications of supraclavicular brachial plexus block. Mention the advantages of ultrasound guided supraclavicular block over conventional supraclavicular block.
10. Mention the complications and write treatment for complications following thyroid surgery.

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M.D. ANAESTHESIOLOGY

PAPER - IV

Q.P Code :RS-3304

Your answers should be specific to the questions asked.

Draw neat labelled diagrams wherever necessary

LONG ESSAY

10X 10 = 100 Marks

1. Etiology of perioperative Pneumothorax. Discuss the diagnosis and management.
2. a) RIFLE criteria
b) MELD score
3. 60year old Diabetes mellitus brought to ICU in a comatose state. Discuss the ICU management.
4. Discuss the various methods of Pain relief in pediatrics.
5. Discuss the common Arrhythmias in ICU and its diagnosis and management.
6. Newer modes of ventilation and its application in ICU.
7. Clinical features of Organophosphorous poisoning. Describe the management of an organo phosphorous poisoning patient on ventilator.
8. Management of a Brain Dead patient awaiting for organ retrieval.
9. How will you calculate the energy requirements in an ICU patient? What are the advantages and disadvantages of parental Vs enteral nutrition?
10. Enumerate the general principles of Anesthesia Outside the OR. Briefly outline the anaesthetic plan for 30yr old female scheduled for oocyte retrieval in IVF suite.

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