

**SRI DEVARAJ URS ACADEMY OF HIGHER EDUCATION AND  
RESEARCH**

**Post Graduate Examinations, November 2023**

**Time: 180 Minutes**

**Max Marks: 100 Marks**

**Anaesthesia Paper I**

**QP CODE: P3151**

*Your answer should be specific to the question asked*

*Draw neat labelled diagrams wherever necessary*

1. What are the contributions of Sir Ivan Magill
2. Define Gas laws & its application
3. What is Coanda effect
4. Explain Mapleson system & functional analysis of Bain's circuit
5. What are the different methods of humidification of inspired gases
6. Discuss about benzodiazepines and their uses
7. What is the importance of anatomy and contents of epidural space?
8. Describe the anatomy of coronary circulation Write a note on factors affecting coronary blood flow
9. The stimulus, effect and mechanism in Cushing's reflex.
10. Discuss the regulation of body temperature. What are the perioperative concerns of hypothermia?

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**Anaesthesia Paper II**

**QP CODE: P3152**

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1. Discuss the pre operative evaluation, optimization and anaesthetic management of a 65 years old female with IHD for elective cholecystectomy.
2. Describe the anatomy of internal jugular vein. Enumerate the complications of central venous cannulation.
3. Write a note on Intra-Aortic Balloon Pump.
4. Write note on Pulmonary function tests.
5. Discuss the pathophysiology of negative pressure pulmonary oedema.
6. Explain oxygen therapy and the methods.
7. Mention the advantages of regional anaesthesia for caesarean section. Causes for reduced local anaesthetic requirement in pregnancy.
8. Describe pathophysiology of Disseminated Intravascular Coagulation and anaesthetic implications.
9. Explain the use and complication of use of Tourniquet in Orthopedic surgery.
10. Define Laser. What are its clinical applications in anaesthesia? Enumerate the laser hazards and precautions in anaesthetic practise.

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**Anaesthesia Paper III**

**QP CODE: P3153**

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1. Write a note on oculo cardiac reflex, causes, pathway and anaesthetic considerations.
2. Discuss various methods of inhalational induction in paediatric patient. Enumerate the causes, preventive measures and management of upper airway obstruction during induction in paediatrics.
3. Discuss about Hepato Renal Syndrome
4. What are the properties of ideal irrigation fluid & write in brief side effects of irrigation solution.
5. Describe the anaesthetic management of a 55 year old male, alcoholic for 25 years, in hepatic failure posted for fracture femur surgery
6. Discuss about Thyroid function tests
7. Describe about perioperative Steroid supplementation in patient on long term steroids
8. Define massive blood transfusion and discuss the various complications associated with massive blood transfusion
9. Discuss about physiological changes in geriatric age group
10. Discuss anatomy, indications, contraindications and procedure of Para vertebral block.

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**Anaesthesia Paper IV**

**QP CODE: P3154**

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1. Explain the indications and describe the anatomy, technique and complications lumbar sympathetic block
2. Causes, manifestations and treatment of Methhaemoglobinemia.
3. Define day care anaesthesia and write in detail about perioperative monitoring of patients undergoing day care anaesthesia
4. What is ECMO and role of ECMO in COVID positive patients.
5. Enumerate the criteria to diagnose covid 19 pneumonia and Discuss the precautions taken to manage covid pneumonia in ICU
6. Define massive blood transfusion and discuss the complications associated with massive blood transfusions.
7. Define Digitalis toxicity and discuss the management of digitalis toxicity.
8. Enumerate the limitations and hazards of providing anaesthesia in MRI suite. Discuss the management of child for MRI brain.
9. Define non operating room anaesthesia(NORA). Enumerate common procedures done under NORA and discuss about NORA in MRI suite.
10. Define enteral and parenteral nutrition. Discuss the advantages and disadvantages of enteral over parenteral nutrition.