

**SRI DEVARAJ URS ACADEMY OF HIGHER EDUCATION AND RESEARCH**  
**(A Deemed to be University)**  
**Post Graduate Examination October/November 2025**

**Time: 180 Minutes**

**Max Marks: 100 Marks**

**Anaesthesiology Paper I**

**QP CODE: P3151**

*Your answer should be specific to the question asked  
Draw neat labelled diagrams wherever necessary*

**10X10 = 100**

1. What are the contributions of Archie Bain
2. Describe the anatomy of coronary circulation Write a note on factors affecting coronary blood flow.
3. What is the importance of anatomy and contents of epidural space?
4. Explain with a neat labelled diagram of Circle System and tests to check the circle system.
5. Define about working principles of a Tec 6 vaporiser.
6. Causes and management of delayed recovery from anaesthesia.
7. Definition, advantages, problems and management of Low flow anaesthesia.
8. Discuss about concentration effect & 2nd gas effect.
9. Discuss Hagen -Poiseuille equation. why is it clinically relevant?
10. What are the various steps involved in Coagulation Pathway and significance of knowing it.

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**Anaesthesia Paper II**

**QP CODE: P3152**

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*Draw neat labelled diagrams wherever necessary*

**10X10=100**

1. Describe pre-operative evaluation and various cardiac risk indices in coronary artery disease.
2. Discuss the pathophysiology of negative pressure pulmonary oedema.
3. Describe the various Low molecular weight heparin used for thromboprophylaxis
4. Define Laser. What are its clinical applications in anaesthesia? Enumerate the laser hazards and precautions in anaesthetic practise.
5. Causes and management of intra-operative hypertension.
6. Discuss the pre-operative evaluation, optimization and anaesthetic management of a 65 years old female with IHD for elective cholecystectomy.
7. Describe the mechanisms of hypoxaemia during anaesthesia.
8. What is Oxygen toxicity and what is its management
9. What is Supine hypotension syndrome. Where it is seen and how it can be prevented
10. What are the factors affecting placental drug transfer?

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**Anaesthesia Paper III**

**QP CODE: P3153**

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**10X10=100**

1. Discuss Difference between primary & secondary hyperthyroidism.
2. Describe about perioperative Steroid supplementation in patient on long term steroids.
3. Describe Management of a patient with hepatic encephalopathy in the ICU.
4. What are the properties of ideal irrigation fluid & write in brief side effects of irrigation solution.
5. Discuss about physiological changes in geriatric age group
6. Write the pathophysiology of shock and the anaesthetic considerations of hypovolaemic shock in a trauma victim.
7. Discuss anatomy, indications, contraindications and procedure of Para vertebral block.
8. Describe the anaesthetic management of a child posted for congenital diaphragmatic hernia repair.
9. Describe the anatomy of foetal circulation and changes at birth.
10. Discuss Pre-Anaesthetic Evaluation & preparation of a CKD patient posted for inguinal hernia repair.

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**Anaesthesia Paper IV**

**QP CODE: P3154**

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**10X10=100**

1. Define day care anaesthesia and write in detail about optimization and selection of paediatric patient and elderly patients undergoing day care anaesthesia
2. Describe pain pathways and draw a neat diagram of Rexed's spinal cord laminae
3. Enumerate the limitations and hazards of providing anaesthesia in MRI suite. Discuss the management of child for MRI brain.
4. Enumerate the aetiology, pathogenesis, diagnosis and management of COVID-19
5. Define Thromboelastography. Draw a neat diagram to show normal tracing and write the implications.
6. Define health care associated infections. Enumerate the components of infection prevention and control programs. Enumerate responsibility of hospital infection control committee and infection control officer.
7. Define non-operating room anaesthesia (NORA). Enumerate common procedures done under NORA and discuss about NORA in MRI suite.
8. Define enteral and parenteral nutrition. Discuss the advantages and disadvantages of enteral over parenteral nutrition.
9. Define Digitalis toxicity and discuss the management of digitalis toxicity.
10. Discuss various dynamic variables for fluid assessment and write their role in the management of septic patients