

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

**(A DEEMED TO BE UNIVERSITY)**

**B.Sc. Allied Health Sciences Third Year Semester-VI**

**September 2025 Examination**



**B.Sc. Anesthesia & Operation Theatre Technology**

**Time: 2 Hrs 30 mins**

**[Max. Marks: 80]**

**PAPER-I**

**Operation Theatre Technology Clinical**

**Q.P Code: J6200**

*Your answers should be specific to the questions asked.*

*Draw neat labeled diagrams wherever necessary.*

**Long Essay**

**2 X 10=20 Marks**

1. How will you prepare OT for Laparoscopic Appendectomy? Mention the anaesthesia management.
2. How you will prepare the OT and prepare the patient for elective LSCS. What a note on post spinal hypotension.

**Short Essay (Answer any Six)**

**6 X 5=30 Marks**

3. IV Cannulation
4. Use of ultrasound in OT
5. Dopamine
6. Types of IV fluids used during surgery
7. Management of difficult intubation.
8. Electrocautery
9. Criteria for reversal
10. OT preparation for laparotomy.

**Short Answers (Answer any ten)**

**10 X 3=30 Marks**

11. Trendelenberg position
12. Three use of microscope in operation theatre.
13. Three laser surgeries done in OT.
14. ABG.
15. Complications of laryngoscope
16. Crystalloids
17. Second generation LMA
18. Saddle block
19. Name three plastic surgical procedures commonly done
20. Fentanyl
21. Uses of endoscopes.
22. Atropine.

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**B.Sc. Anesthesia & Operation Theatre Technology**

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[Max. Marks: 80]

**PAPER-II**

**Operation Theatre Technology Applied**

**Q.P Code: J6210**

*Your answers should be specific to the questions asked.*

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**Long Essay**

**2X10 = 20 Marks**

1. Describe various types of GA and add a note on Guedel's stages of anaesthesia.
2. Describe various induction agents in anaesthesia. Explain any one agent in detail.

**Short Essay (Answer any Six)**

**6 X 5=30 Marks**

3. Classify muscle relaxant and describe in detail about succinylcholine
4. Precaution to be taken while positioning the patient in OT
5. Intubation
6. Artificial airways
7. Mention various drugs used while maintenance of anaesthesia
8. Bier's block
9. Mention different types of laryngoscope blades and add a note on their sterilization
10. Methods to confirm the placement of endotracheal tube

**Short Answers (Answer any ten)**

**10 X 3=30 Marks**

11. Reservoir bag
12. Flow meters
13. Intravenous fluids
14. Special Endotracheal Tubes
15. Colour coding of vaporizers
16. Etomidate
17. Write a note on various sizes and the color coding of intravenous cannulas
18. Recognition of blood transfusion reaction
19. Rapid sequence induction indications
20. Bupivacaine
21. Magill Forceps
22. Components of epidural kit



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**Time: 2.30 Hrs.**

**[Max. Marks: 80]**

#### **PAPER-III**

#### **Operation Theatre Technology Advanced**

**Q.P Code: J6220**

*Your answers should be specific to the questions asked.*

*Draw neat labeled diagrams wherever necessary.*

#### **Long Essay**

**2 X 10=20 Marks**

1. Write in brief how you will get a theatre ready for a laparoscopic surgery.
2. How will prepare the OT and Write the anaesthesia management for CABG surgery?

#### **Short Essay (Answer any Six)**

**6 X 5=30 Marks**

3. Write about monitoring in general anaesthesia
4. CPR
5. Describe double lumen endotracheal tube
6. One lung ventilation
7. Arterial cannulation. Write the setting of IBP.
8. Tracheostomy
9. Intra operative awareness.
10. Heart lung machine

#### **Short Answers (Answer any ten)**

**10 X 3=30 Marks**

11. Three post-operative complications thyroid surgery
12. Name few commonly done kidney function tests
13. WTG Morton
14. Three complication following massive blood transfusion
15. How will you check Ryle's tube position
16. Three common neurosurgical procedures done in OT
17. Three reasons for intraoperative hypoxia
18. Three common respiratory complication following GA
19. Post-Dural puncture head ache
20. Special care of sharp instruments
21. Name two vasopressor drugs commonly used following spinal anaesthesia
22. Three precautions during ophthalmic surgeries under general anaesthesia

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**Time: 2hrs 30 mins**

**[Max. Marks: 80]**

### **PAPER-I**

#### **Anesthesia and Operation Theatre Technology-Clinical**

**Q.P Code : K6181**

*Your answers should be specific to the questions asked.*

*Draw neat labeled diagrams wherever necessary.*

### **LONG ESSAY QUESTIONS**

**(2x10=20)**

1. What are the indications, different, approaches, techniques and complications of central venous cannulation?
2. How do you prepare the OT for a patient undergoing Laparoscopic Cholecystectomy?

### **SHORT ESSAY QUESTIONS**

**(6x5=30)**

3. Write about the indications, procedure and complications of peripheral IV Cannulation?
4. Classify surgical instruments.
5. Difficult intubation
6. Informed consent
7. How do you prepare OT for LSCS?
8. Ultrasound.

### **SHORT ANSWER QUESTIONS**

**(10x3=30)**

9. Sutures
10. CO<sub>2</sub> Cylinder.
11. Use of Lasers in surgery
12. Atropine
13. Dopamine
14. Draping technique
15. Mastectomy
16. How do you treat Bradycardia?
17. Complications of ET Tube intubation
18. Types of Flow meters



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**Time: 2hrs 30 mins**

**[Max. Marks: 80]**

#### **PAPER-II**

#### **Anesthesia and Operation Theatre Technology – Applied**

**Q.P Code: K6182**

*Your answers should be specific to the questions asked.*

*Draw neat labeled diagrams wherever necessary.*

#### **LONG ESSAY QUESTIONS**

**2X10=20 Marks**

1. What is spinal anaesthesia? Discuss its indication, contra indications & complications in detail. Draw a neat labelled diagram of spinal anaesthesia anatomy.
2. Name the various inhalational agents along with their MAC values. Discuss Isoflurane in detail.

#### **SHORT ESSAY QUESTIONS**

**6X5=30 Marks**

3. Difficult intubation management
4. Explain various types of LMAs.
5. What are the benefits of using anesthetic adjuvants? Mention the uses and side effects of adrenaline.
6. Management of intraoperative hypotension
7. Monitoring in OT.
8. Caudal Anaesthesia.

#### **SHORT ANSWER QUESTIONS**

**10X3=30 Marks**

9. Ketamine.
10. Bradycardia
11. PEEP
12. I gel
13. Various types of ET Tubes
14. Lignocaine gel uses
15. Pipelines
16. Emergence.
17. Entanox
18. Antiemetic drugs.

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**[Max. Marks: 80]**

#### **PAPER-III**

#### **Anesthesia and Operation Theatre Technology-Advanced**

**Q.P Code: K6183**

*Your answers should be specific to the questions asked.*

*Draw neat labeled diagrams wherever necessary*

#### **LONG ESSAY QUESTIONS**

**(2X10=20)**

1. Explain the set up for invasive blood pressure monitoring in detail. What is the principle behind it? What is zeroing and how do you do it?
2. Write the OT set up and anaesthesia management for a patient undergoing laparoscopic appendectomy surgery.

#### **SHORT ESSAY QUESTIONS**

**(6X5=30)**

3. Pediatric CPR
4. Discuss skin grafting.
5. Balanced anaesthesia.
6. Brain death
7. Central venous cannulation
8. Anaesthesia management for lobectomy.

#### **SHORT ANSWERS QUESTIONS**

**(10X3=30)**

9. Bronchoscopy
10. Oculocardiac reflex
11. Pneumatic tourniquets
12. Name three drugs used in ACLS
13. Sub tenons block
14. Tonsillectomy
15. Lead apron
16. Cryoprecipitate
17. Heparin
18. CABG.

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