

**SRI DEVARAJ URS ACADEMY OF HIGHER EDUCATION & RESEARCH**  
(A DEEMED TO BE UNIVERSITY)

**B.Sc. Allied Health Sciences Third Year (Semester-V)**  
**Operation Theatre Technology (OTT)**  
Feb/March 2017 Examination

Time : 3 Hrs.

[Max. Marks : 100]

**PAPER –I**

**Operation Theatre Technology-CLINICAL**

**Q.P Code : AHS-121**

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

**LONG ESSAY (Answer any Two)**

**2 X 10 = 20 Marks**

1. Describe the different zones in operation theatre. Add a note on electrical and air conditioning systems in the OT.
2. Explain in detail hand washing, gowning, cap, mask and glove.
3. Define cleaning, Disinfection and sterilization. Discuss the methods of cleaning and sterilizing the OT.

**SHORT ESSAY (Answer any Ten)**

**10X 5 = 50 Marks**

4. Transportation of the patient to the operating room.
5. Pre operative assessment room.
6. Sources of contamination in OT.
7. Infection control in OT.
8. Fire safety.
9. Screening tests of OT.
10. Critical items and semi critical items.
11. Cleaning of anesthesia carts.
12. Write role of the theatre assistant.
13. CSSD.
14. Air conditioning system in OT.
15. Forced air warming devices.

**SHORT ANSWERS (Answer any Ten)**

**10 X 3 = 30 Marks**

16. Chemical hazards.
17. Hazards in laser surgery.
18. Fire plan.
19. Define hand washing technique.
20. Cleaning of anaesthesia machine.
21. Collection of swab from OT.
22. Gas mani fold.
23. Carbolisation of theatre.
24. Define asepsis.
25. Define disinfection.
26. Define surgical asepsis.
27. Define Droplet infection.

**Time : 3 Hrs.**

**[Max. Marks : 100]**

**PAPER –II**

**OPERATION THEATRE TECHNOLOGY-APPLIED**

**Q.P Code : AHS-122**

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

*Draw neat labelled diagrams wherever necessary.*

**LONG ESSAY (Answer any Two)**

**2 X 10 = 20 Marks**

1. Equipments and monitoring requirements for outside operating room anaesthesia.
2. Explain spinal anaesthesia.
3. Prepare the OT for Ultrasound guided nerve blocks.

**SHORT ESSAY (Answer any Ten)**

**10X 5 = 50 Marks**

4. Non depolarizing muscle relaxants.
5. Name five inhalation agents and write a sentence about each one.
6. Renal function tests.
7. Succinyl choline.
8. Name two intravenous induction agents and write two sentences about each.
9. Name two local anaesthetic agents and write two sentences about each.
10. Explain the choice of anaesthesia for laparotomy.
11. Epidural anaesthesia.
12. Explain the ECT procedure and anaesthesia.
13. Pre-operative instructions for patient posted for elective surgery.
14. Airway obstruction.
15. Anaesthesia record.

**SHORT ANSWERS (Answer any Ten)**

**10 X 3 = 30 Marks**

16. Suction apparatus.
17. Clinical thermometer.
18. ECG
19. FBS and PPBS
20. Neostigmine.
21. What are the monitors used to monitor a patient in OT?
22. Vaporizer.
23. Carbon di oxide absorber.
24. Face mask.
25. Cautery plate.
26. NIBP
27. Paracetamol.

**Time : 3 Hrs.**

**[Max. Marks : 100]**

**PAPER –III**

**OPERATION THEATRE TECHNOLOGY-ADVANCED**

**Q.P Code : AHS-123**

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

*Draw neat labelled diagrams wherever necessary.*

**LONG ESSAY (Answer any Two)**

**2 X 10 = 20 Marks**

1. How do you position a patient posted for lumbar spine surgery. What are the complications associated and precautions taken to prevent them.
2. List the surgeries done with lithotomy position. What are the complications of lithotomy?
3. What is the position for lap cholecystectomy? What are the anesthetic concerns?

**SHORT ESSAY (Answer any Ten)**

**10X 5 = 50 Marks**

4. Care of laparoscopic instruments after surgery.
5. What are the various techniques used in anaesthesia, explain with indication.
6. Positioning for IJV cannulation.
7. Anesthesia for donor for renal transplant.
8. Anesthesia for cesarean section.
9. Complications of blood transfusion.
10. What are the drugs used to reduce intra cranial pressure?
11. Positioning for DHS.
12. Positioning and other anesthetic considerations for gastric sleeve resection.
13. Supine hypotension syndrome.
14. How do you prepare for labour epidural analgesia in the Labor Room?
15. Problems with the release of the tourniquet.

**SHORT ANSWERS (Answer any Ten)**

**10 X 3 = 30 Marks**

16. Massive blood loss during surgery.
17. The trolley set-up for TUR of prostate.
18. Post operative monitoring for a neurosurgical patient.
19. Complications of long bone surgery.
20. Problems with bone cement.
21. Catheter-related blood stream infection.
22. Post-operative pain management in PCNL.
23. Irrigating fluids in urological practice.
24. What are the advantages of spinal anesthesia in an obstetric patient?
25. Trolley set-up for a neurosurgery.
26. Non-absorbable sutures.
27. Post-operative complications of a TUR-P