



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

**B.Sc. Allied Health Sciences Second Year Semester-V**

**March / April 2026 Examination**

**B.Sc. Anesthesia and Operation theatre Technology**

**Time: 2.30 Hrs.**

**[Max. Marks: 80]**

**Subject: Anesthesia and Operation Theatre Technology-Clinical**

**Q.P Code: K5171**

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

*Draw neat labelled diagrams wherever necessary.*

**I. LONG ESSAY QUESTIONS**

**2X10=20 Marks**

1. Write in detail about the components of anaesthesia machine, Write a note on Safety Features of anaesthesia machine.
2. Define general anaesthesia. What are the types of general anaesthesia and explain them?

**II. SHORT ESSAY QUESTIONS**

**6X5=30 Marks**

3. Explain about moist heat sterilization, write about preparation for sterilization.
4. Write the preoperative patient preparation for surgery and anaesthesia.
5. Thiopentone.
6. Write a note on criteria for accepting a case.
7. Describe the various investigations done before surgery with their importance.
8. Write the preparation, indications, and contraindications of intubation.

**III. SHORT ANSWERS QUESTIONS**

**10X3=30 Marks**

9. Name three uses of Radiation sterilization
10. Mention the uses of Fentanyl.
11. Glycopyrrrolate
12. What is the principle behind pulse oximetry?
13. H<sub>2</sub>O<sub>2</sub> Uses.
14. Mention LMA parts with diagram
15. Mallampati grading with diagram.
16. ABG.
17. Name the components of patient personal history.
18. Physical facilities in OT.

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**B.Sc. Anesthesia and Operation theatre Technology**

**Time: 2.30 Hrs.**

**[Max. Marks: 80]**

**Subject: Anesthesia and Operation Theatre Technology-Applied**

**Q.P Code: K5172**

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

*Draw neat labelled diagrams wherever necessary.*

**I. LONG ESSAY**

**2X10=20 Marks**

1. Define general anaesthesia. Explain in detail about different types of general anaesthesia. Add a note on complications of GA.
2. Describe briefly about the safety features of anaesthesia machine. Write about pin index safety system and its diagram.

**II. SHORT ESSAY**

**6X5=30 Marks.**

3. Write a short on post-operative complications and their management.
4. Write the mechanism of action, dose, indications, contraindications and adverse effects of Atracurium.
5. Add a short note on Atropine – dose, indications, side effects and route of administration.
6. Describe in detail about reversal of GA.
7. Describe the predictors of difficult airway and how do you manage unanticipated difficult intubation?
8. Write a short on types of brachial plexus block and describe the drugs used for these blocks.

**III. SHORT ANSWER**

**10X3=30 Marks**

9. Mention three inotropic drugs and mention their uses.
10. Write about Sir Ivan Magill.
11. Name three routes of fentanyl.
12. How do you Maintain body temperature in an anaesthetized patient.
13. Name any three Spinal needle and its color code.
14. Mention the uses of Magill's forceps.
15. Name three causes for aspiration.
16. Mention the steps in basic life support.
17. Name five moments of hand hygiene.
18. Name the uses of Dopamine and Dobutamine.

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**March / April 2026 Examination**

**B.Sc. Anesthesia and Operation theatre Technology**

**Time: 2.30 Hrs.**

**[Max. Marks: 80]**

**Subject: Anesthesia and Operation Theatre Technology-Advanced**

**Q.P Code: K5173**

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

*Draw neat labelled diagrams wherever necessary.*

**I. LONG ESSAY**

**2X10=20 Marks**

1. Define mechanical ventilation. What are the indications and complications of mechanical ventilation? Explain in detail about modes of mechanical ventilation.
2. Explain in detail about lung volumes and capacities with a diagram. Add a note on spirometry.

**II.SHORT ESSAY**

**6X5=30 Marks**

3. Write about the anaesthesia management for elective LSCS.
4. Explain the anaesthesia management for a patient liver disease.
5. Define and mention the types of shock. Mention the management of hypovolemic shock.
6. Write a short note on pulmonary function tests.
7. Define Aerosol therapy. Mention the indications, various devices used and complications of aerosol therapy.
8. Describe congestive cardiac failure in detail.

**III. SHORT ANSWERS**

**10X3=30 Marks**

9. Trendelenburg position.
10. Epidural analgesia in the Labor Room
11. Name three adverse effects of Tourniquet.
12. Humidification.
13. C-arm.
14. Classify Sutures.
15. BMI
16. Bone cement
17. Mention the uses of crystalloids.
18. Electro cautery.

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