



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

**M.Sc. Anesthesia & Operation Theatre Technology (Semester-II)**

**Examination November 2025**

**Time: 3 Hrs.**

**[Max. Marks: 100]**

**Advanced Anaesthesia Techniques**

**Q.P Code: MA2160**

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

*Draw neat labelled diagrams wherever necessary.*

**LONG ESSAY**

**2 X 20 = 40 Marks**

1. How do you prepare the operation theatre for general anaesthesia in a patient with anticipated difficult airway? Write about guidelines to manage failed endotracheal intubation in operation theatre.
2. What are the equipments required for Central venous cannulation? What are the various approaches and complications of Central venous cannulation?

**SHORT ESSAY**

**6X 10 = 60 Marks**

3. How do you recognize and manage Anaphylaxis under general anaesthesia.
4. Explain about the types and techniques General anaesthesia. Add a note on Depth of anaesthesia and its importance.
5. What do you mean by awareness during anaesthesia and how do you prevent it? What are the causes and consequences of awareness during anaesthesia?
6. What are the various factors affecting neuromuscular blockade? Discuss various methods to monitor neuromuscular blockade.
7. Write in detail about criteria for discharge from Post Anaesthesia Care Unit. Mention about the monitoring in PACU.
8. Write in detail about various modes of ventilation.

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**[Max. Marks: 100]**

**Applied surgical Technology  
Q.P Code: MA2170**

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**LONG ESSAY**

**2 X 20 = 40 Marks**

1. Explain wound management in detail. Describe the principles, prevention of wound infection, and postoperative care.
2. Discuss universal precautions in surgery. Mention the infection prevention strategies and their importance for patient and staff safety.

**SHORT ESSAY**

**6X 10 = 60 Marks**

3. Describe various types of surgical incisions with their indications, advantages, and disadvantages.
4. Explain the role of laboratory investigations in surgical planning.
5. Define medical asepsis and surgical asepsis. List their principles and techniques.
6. Define antibiotic prophylaxis and state its importance. Add a note on antibiotic resistance.
7. Define dead space and its management.
8. Explain Name different suture techniques.

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**[Max. Marks: 100]**

**Research Methodology & Biostatistics**

**Q.P Code : MA2180**

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

**LONG ESSAY**

**2 X 20 = 40 Marks**

1. Classify the types of Epidemiological study designs. Describe the steps in conducting a cross-sectional study with suitable example. Enumerate the advantages and disadvantages of Prevalence studies.
2. a) Define dispersion and explain 3 measures of dispersion with examples.  
b) Calculate Mean, Median and Mode for the following data on Systolic Blood Pressure of 10 patients admitted for cataract surgery ward and interpret the results.

134, 128, 142, 134, 116, 139, 127, 132, 124, 134

**SHORT ESSAY**

**6X 10 = 60 Marks**

3. Classify variables with examples
4. Enlist the types of Sampling in research. Describe Non-random sampling techniques.
5. Classify Methods of data collection for research. Describe Interview as a technique of data collection. Mention its merits and demerits.
6. Explain types of data? Explain the methods of data collection?
7. Define Bias in Research. Describe the types of bias and the ways to overcome them.
8. Explain in detail diagrammatic and graphical presentation of data with examples

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