Rajiv Gandhi University of Health Sciences, Karnataka

III Year B.Sc. Operation theatre Technology Degree Examination – 20-May-2025

Time: Three Hours **Max. Marks: 100 Marks**

Clinical Operation Theatre Technology - PAPER – I (RS2)
Q.P. CODE: 2926

Your answers should be specific to the questions asked
Draw neat, labeled diagrams wherever necessary

LONG ESSAYS (Answer any two) **2 x 10 = 20 Marks**

1. OT room sterilization. Agents used advantages and disadvantages.
2. Discuss the principle of construction of an operation theatre.
3. Classify various surgical instruments.

SHORT ESSAYS (Answer any ten) **10 x 5 = 50 Marks**

4. Enumerate various radiological examinations.
5. Handling of endoscopic instruments and fine surgical instruments.
6. Emergency Appendicectomy.
7. Electro Cautery, where it is used, precautions and hazards.
8. Types of lasers and its applications.
9. Decontamination and disinfection of surgical instruments.
10. Colonoscopy.
11. Principles of Aseptic techniques.
12. Thermal sterilization.
13. Abdominal incisions.
14. Duties of a scrub nurse during a micro surgery.
15. Surgical gowning.

SHORT ANSWERS (Answer any ten) **10 x 3 = 30 Marks**

16. Define sterilization.
17. Lithotomy position.
18. Indications for Hepatectomy.
19. Define FNAC and its uses.
20. Fiberoptic scopes.
21. ETO sterilization.
22. Sources of injury to the patient.
23. Splenorrhaphy.
24. Name the methods of chemical sterilization.
25. Name five micro surgical procedures.
26. List the injuries during patient positioning.
27. Name six necessary equipments used in Operation Theatre.

Rajiv Gandhi University of Health Sciences, Karnataka

III Year B.Sc. Operation Theatre Technology Degree Examination - 22-May-2025

Time: Three Hours **Max. Marks: 100 Marks**

APPLIED OPERATION THEATRE TECHNOLOGY
PAPER - II (RS2)
Q.P. CODE: 2927

Your answers should be specific to the questions asked
Draw neat labeled diagrams wherever necessary

LONG ESSAYS (Answer any Two) **2 x 10 = 20 Marks**

1. Describe Anaesthesia Work Station. Discuss about cylinders uses, coding and safety features.
2. Explain the procedure of receiving a patient in post-operative room and care taken while shifting.
3. Discuss indications, techniques and complications of epidural anaesthesia.

SHORT ESSAYS (Answer any Ten) **10 x 5 = 50 Marks**

4. **Role of qualified anesthesia technician**
5. Classify opioids and list its side effects.
6. Describe different lignocaine preparation and its uses.
7. Colloids.
8. Patient care for diagnostic procedures.
9. USG guided nerve blocks.
10. ABO incompatibility.
11. Methods of administration of inhalation anaesthesia.
12. Objectives of general anaesthesia.
13. Jackson Rees circuit.
14. Sterilization of OT table.
15. Different diagnostic procedures for breast.

SHORT ANSWERS (Answer any Ten) **10 x 3 = 30 Marks**

16. Advantages of scavenging system.
17. Importance of ECG monitoring in OT.
18. Blood warmer.
19. Define MAC (Minimum Alveolar Concentration).
20. List three drugs used for sedation in diagnostic room.
21. Low flow anaesthesia.
22. Uses of Succinylcholine.
23. Laryngospasm.
24. Indications of platelet transfusion.
25. Bronchoscopy – uses.
26. Mention three radiological examination for thyroid swelling.
27. List three sites for neuro-muscular monitoring.

Rajiv Gandhi University of Health Sciences, Karnataka

III Year B.Sc. Anaesthesia Technology Degree Examination – 20-May-2025

Time: Three Hours **Max. Marks: 100 Marks**

Clinical Anaesthesia Technology, Paper – I (RS2)
Q.P. CODE: 2932

Your answers should be specific to the questions asked
Draw neat, labeled diagrams wherever necessary

LONG ESSAYS (Answer any Two) **2 x 10 = 20 Marks**

1. What is difficult intubation? List of equipments you will keep in a difficult airway cart.
2. Pre anaesthetic evaluation of a patient.
3. Write in detail on anaesthesia machine.

SHORT ESSAYS (Answer any Ten) **10 x 5 = 50 Marks**

4. Magills laryngoscope.
5. Write a short note on suction apparatus.
6. Name the IV anaesthetic drugs. How does it works?
7. Transport of patient.
8. Methods of estimation of blood loss during surgery.
9. Write a note on endotracheal intubation.
10. Complications of general anaesthesia.
11. Nor epinephrine.
12. Venupuncture.
13. Choice of anaesthesia.
14. Oxygen and Nitrousoxide – concentration, pressure regulators.
15. Hemodynamic monitoring used in cardiac surgery.
16. Write a note on opioids.
17. Pin index system.

SHORT ANSWERS (Answer any Ten) **10 x 3 = 30 Marks**

18. ECG.
19. Advantages of Bain circuit.
20. Mention the drugs used for the reversal of a patient under general anaesthesia.
21. Tests for identifying leaks in anaesthesia machine.
22. Thiopentone sodium.
23. I gel.
24. Aims of pre operative preparation.
25. Stages of anaesthesia.
26. Capnography.
27. Induced hypothermia.
28. Purpose of pre oxygenation before induction.
29. Double lumen tubes.

Rajiv Gandhi University of Health Sciences, Karnataka

III Year B.Sc. Anesthesia Technology Examination – 22-May-2025

Time: Three Hours **Max. Marks: 100 Marks**

Applied Anaesthesia Technology - Paper – II (RS2)
Q.P. CODE: 2933

Your answers should be specific to the questions asked
Draw neat, labeled diagrams wherever necessary

LONG ESSAYS (Answer any Two) **2 x 10 = 20 Marks**

1. Indications for prone position. What are the precautions to taken to avoid injuries in Prone position?
2. Classify local anaesthetics. Indications, contraindication and complications of spinal anaesthesia.
3. Mention the different types of Laryngeal mask and their uses. Add a note an I-gel.

SHORT ESSAYS (Answer any Ten) **10 x 5 = 50 Marks**

4. Halothane Vs Sevoflurane
5. Classify arrhythmias and their management
6. Metabolic alkalosis
7. Define hyperthermia causes for intraoperative hyperthermia and management
8. KETAMINE – Mechanism of action and uses
9. Minimum Alveolar concentration (MAC)
10. Classify muscle relaxants. Mention the mechanism of action of non-depolarising muscle relaxants.
11. What are the complications of general anaesthesia?
12. Pre-use check of anaesthetic equipments
13. SUXAMETHONIUM
14. Pulse oximetry
15. Combitube

SHORT ANSWERS (Answer any Ten) **10 x 3 = 30 Marks**

16. Amiodarone
17. Patterns of peripheral nerve stimulation
18. Four uses of Lignocaine
19. Humidity in breathing air
20. Define Bradycardia and its management.
21. Respiratory acidosis
22. Uses of Capnograph
23. Adjuvants used in spinal and epidural anaesthesia
24. Causes for post operative tachycardia and management
25. List the cardiac arrest rhythms which can be defibrillated.
26. Mention four uses of Adrenaline.
27. Entonox

*****

Rajiv Gandhi University of Health Sciences, Karnataka

Third Year B.Sc. Anaesthesia Technology Degree Examination – 20-May-2025

Time: Three Hours **Max. Marks: 100 Marks**

ANAESTHESIA TECHNOLOGY – CLINICAL – PAPER-I (RS-3)
Q.P. CODE: 3271

Your answers should be specific to the questions asked
Draw neat labeled diagrams wherever necessary

LONG ESSAYS (Question No.2 Choice) **2 x 10 = 20 Marks**

1. Multiparameter monitoring – ECG, SpO2, NIBP, Temperature and their importance during anaesthesia
2. Classification of the Mapleson's breathing system
   OR
   Management of difficult intubation

SHORT ESSAYS (Question No.5 & 10 choice) **10 x 5 = 50 Marks**

3. Balanced Anaesthesia
4. Non-invasive monitoring during anesthesia
5. Recovery room setup and things needed
   OR
   Flow meter assembly
6. Informed consent
7. NPO guidelines
8. Pre medication drugs
9. Oxygen therapy
10. Reversal agents
    OR
    Write a short on propfol
11. Oxygen mask
12. Mallampatti classification

SHORT ANSWER (Question No. 15 & 20 choice) **10 x 3 = 30 Marks**

13. Bougie
14. Pulse oximetry
15. ETCO2
    OR
    Liver function test
16. Complications of spinal anaesthesia
17. Technique of venepuncture
18. Patient identification
19. Suction apparatus
20. Premedication
    OR
    Post operative nausea and vomiting
21. Emergency drugs in cardiac arrest
22. Aminophylline

Rajiv Gandhi University of Health Sciences, Karnataka

Third Year B.Sc. Anaesthesia Technology Degree Examination – 22-May-2025

Time: Three Hours **Max. Marks: 100 Marks**

ANAESTHESIA TECHNOLOGY – APPLIED - PAPER-II (RS-3)
Q.P. CODE: 3272

Your answers should be specific to the questions asked
Draw neat labeled diagrams wherever necessary

LONG ESSAYS (Question No.2 Choice) **2 x 10 = 20 Marks**

1. Classify muscle relaxants, add a note on depolarizing relaxants
2. Define Hypoxia, causes, clinical signs and management
   OR
   Enumerate opiod analgesics. Discuss any two in detail

SHORT ESSAYS (Question No.5 & 10 choice) **10 x 5 = 50 Marks**

3. Propofol
4. Nerve blocks
5. Minimum alveolar concentration
   OR
   Epidural anaethesia - indications, methods and complications
6. Local anaesthestic systemic toxicity
7. Isoflurane
8. Causes of intraoperative bronchospasm and treatment
9. Neostigmine
10. Basic life support
    OR
    Stages of anaesthesia
11. Dopamine
12. Mallampati grading of airway

SHORT ANSWER (Question No. 15 & 20 choice) **10 x 3 = 30 Marks**

13. Patterns of nerve stimulation
14. Causes of intraoperative tachycardia
15. Ketamine
    OR
    Thiopentone
16. Defibrillation
17. Name three benzodiazepines
18. Thermal injury during anaesthesia
19. Vecuronium Bromide
20. Antiarrhythmic drugs
    OR
    Causes of airway trauma
21. Backup ventilation
22. Accidents during anaesthesia

Rajiv Gandhi University of Health Sciences, Karnataka

Third Year B.Sc. Anaesthesia Technology & Operation Theatre Technology
Degree Examination – 20-May-2025

Time: Three Hours **Max. Marks: 100 Marks**

Anaesthesia & OT Technology – Clinical -PAPER-I

Q.P. CODE: 3393

Your answers should be specific to the questions asked
Draw neat labeled diagrams wherever necessary

LONG ESSAYS (Answer any two) **2 x 10 = 20 Marks**

1. Preoperative preparation of operation theatre, drugs and equipment for paediatric anaesthesia
2. **CABG**
3. Powered surgical instruments

SHORT ESSAYS (Answer any ten) **10 x 5 = 50 Marks**

4. Fabrications of instruments
5. Pre-anesthetic evaluation
6. Closed method of gloving technique
7. Define Asepsis. Explain surgical hand wash technique
8. C-arm
9. Different types of Laryngoscopes
10. Laparoscopic instruments
11. Arthroscopy
12. Hernioplasty
13. Ectopic pregnancy
14. Skin grafting
15. Double lumen tube

SHORT ANSWER (Answer any ten) **10 x 3 = 30 Marks**

16. Atropine
17. EMLA cream
18. Endoscopy
19. Name the surgical procedures on stomach
20. Diathermy
21. Receiving the patient to OT
22. Transition zone
23. Name the chemical sterilization agents
24. Prevention of physical hazards
25. Stylet
26. Surgical needle
27. Lipoma

Rajiv Gandhi University of Health Sciences, Karnataka

Third Year B.Sc. Anaesthesia Technology & Operation Theatre Technology Degree Examination – 22-May-2025

Time: Three Hours **Max. Marks: 100 Marks**

Anaesthesia & OT Technology – Applied -PAPER-II

Q.P. CODE: 3394

Your answers should be specific to the questions asked
Draw neat labeled diagrams wherever necessary

LONG ESSAYS (Answer any two) **2 x 10 = 20 Marks**

1. Discuss the roles of various types of anaesthetic monitoring in detail
2. Describe the causes of difficult intubation. Add a note on gadgets to manage airway obstruction
3. Name three medical emergencies in intraoperative period. Discuss its diagnosis and management in detail

SHORT ESSAYS (Answer any ten) **10 x 5 = 50 Marks**

4. Post operative nausea and vomiting
5. Safety considerations in MRI units
6. Electro convulsive therapy
7. Laryngospasm
8. Colonoscopy
9. Angiography
10. Maintenance of anaesthesia
11. Assessment of blood loss
12. Define safety devices in anaesthesia machine
13. IVF procedure
14. **Central venous pressure monitoring**
15. Principles of sterile technique

SHORT ANSWER (Answer any ten) **10 x 3 = 30 Marks**

16. Discharge criteria in PACU
17. Handling blood products
18. Parts of a Laryngoscope
19. OT fire and electrical mishap
20. Oral airway
21. Routes of administration of drugs
22. Labour analgesia
23. Cricothyrotomy
24. Goals of pre operative assessment
25. Local anaesthetic toxicity
26. Management of post operative spinal headache
27. What are the different types of ET tubes?

Rajiv Gandhi University of Health Sciences, Karnataka

III Year B.Sc. Operation Theatre Technology Degree Examination – 20-May-2025

Time: Three Hours **Max. Marks: 100 Marks**

OPERATION THEATRE TECHNOLOGY – CLINICAL – PAPER-I (RS-3)

Q.P. CODE: 3408

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

LONG ESSAYS (Question No.2 Choice) **2 x 10 = 20 Marks**

1. Describe OT preparation before major surgery.
2. Describe powered surgical instruments. Give examples and mention their uses.

   OR

   Explain fumigation. Describe the procedure and list various agents used and precautions taken during procedure.

SHORT ESSAYS (Question No.5 & 10 choice) **10 x 5 = 50 Marks**

3. Care of operating microscope.
4. Sources of contamination in OT.
5. OT lighting.

   OR

   Precautions while using cautery.
6. Moist heat sterilization.
7. Fire hazards in OT.
8. Scrubbing techniques.
9. Preparation of patient for laparoscopic cholecystectomy.
10. Nd : YAG laser.

    OR

    Fabrication.
11. Different positions for various surgeries.
12. Sharp instruments assembly.

SHORT ANSWER (Question No. 15 & 20 choice) **10 x 3 = 30 Marks**

13. Post op care of GA patients.
14. ETO sterilization.
15. Documentation in OT.

    OR

    Hydrogen peroxide.
16. Care while proning the patients.
17. Preparation for mastectomy
18. Types of hazards in OT.
19. **Uses of C-Arm**
20. Define custom pack.

    OR

    Complications of diathermy.
21. Surgical gloves.
22. Define sterile technique.

Rajiv Gandhi University of Health Sciences, Karnataka

III Year B.Sc Operation Theatre Technology Degree Examination – 22-May-2025

Time: Three Hours **Max. Marks: 100 Marks**

OPERATION THEATRE TECHNOLOGY – APPLIED- PAPER-II (RS-3)

Q.P. CODE: 3409

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

LONG ESSAYS (Question No.2 Choice) **2 x 10 = 20 Marks**

1. Discuss different types of anaesthesia. Write indications and contraindications of spinal anaesthesia.
2. List various blood products. Mention indications of blood transfusion and complications associated with transfusion.

   OR

   Classify local anaesthetic agents with examples. Discuss LAST (Local Anaesthetic Systemic Toxicity).

SHORT ESSAYS (Question No.5 & 10 choice) **10 x 5 = 50 Marks**

3. Sevoflurane.
4. BP monitoring in OT.
5. Transportation of patients to OT.

   OR

   MRI.
6. Central Venous Pressure monitoring.
7. **Management of post op shivering**
8. Lithotomy position.
9. Airway assessment.
10. History of anaesthesia.

    OR

    Complications of GA.
11. Bains circuit.
12. Balanced anaesthesia.

SHORT ANSWER (Question No. 15 & 20 choice) **10 x 3 = 30 Marks**

13. Draw face mask and label its parts.
14. Contents of soda lime.
15. Uses of USG in OT.

    OR

    Etomidate.
16. Define difficult intubation.
17. **Cylinders – color coding**
18. Quincke needles.
19. CO_2 monitoring.
20. Pediatric circuit.

    OR

    Types of LMA.
21. List three emergency drugs.
22. Post op analgesia.

Rajiv Gandhi University of Health Sciences, Karnataka

III Year B.Sc. Operation Theatre Technology Advanced Degree Examination – 27-May-2025

Time: Three Hours **Max. Marks: 100 Marks**

OPERATION THEATRE TECHNOLOGY ADVANCED - PAPER – III (RS2)
Q.P. CODE: 2928

Your answers should be specific to the questions asked
Draw neat, labeled diagrams wherever necessary

LONG ESSAYS (Answer any Two) **2 x 10 = 20 Marks**

1. Explain various abdominal incisions
2. **Discuss in detail about lower segment cesarean section**
3. Describe radical mastectomy and discuss breast reconstruction surgery

SHORT ESSAYS (Answer any Ten) **10 x 5 = 50 Marks**

4. Above – knee amputation
5. Full term normal delivery
6. Handling of laparoscopic instruments
7. Renal transplantation
8. Laparoscopic cholecystectomy
9. Different types of thyroidectomy procedures
10. Enumerate the instruments used for vaginal hysterectomy
11. What is cataract? Name the types of surgery done for cataract
12. Circumcision
13. Discuss the actions taken in the operation theatre after a surgery on a gas gangrene patient
14. Transurethral resection of prostate and its complications
15. Discuss about arthroscopy and arthroplasty

SHORT ANSWERS (Answer any Ten) **10 x 3 = 30 Marks**

16. Phacoemulsification
17. Tracheostomy
18. Safety features in anesthesia machine
19. Supine position
20. Post-operative fluid management
21. Name two instruments used for lumbar puncture
22. What is bone cement?
23. Abscess drainage
24. Classify suture materials
25. T bandage
26. Endoscope sterilization
27. Precautions to be taken while shifting the patient to recovery room

.....

Rajiv Gandhi University of Health Sciences, Karnataka

III Year B.Sc. Anesthesia Technology Degree Examination – 27-May-2025

Time: Three Hours **Max. Marks: 100**

ADVANCED ANAESTHESIA TECHNOLOGY (RS-2)

Q.P. CODE: 2934

Your answers should be specific to the questions asked
Draw neat labeled diagrams wherever necessary

LONG ESSAYS (Answer any Two) **2 x 10 = 20 Marks**

1. Discuss the clinical features, investigation and management of congestive cardiac failure
2. Discuss the clinical features, investigation and management of myocardial infarction
3. Discuss about diabetic patient coming for below knee amputation

SHORT ESSAYS (Answer any Ten) **10 x 5 = 50 Marks**

4. Importance of ECG in a patient posted for surgery
5. Drugs used for bronchospasm during surgery. How to diagnose intraoperative bronchospasm
6. Post operative seizures and its management
7. Drugs to reduce pressor response during intubation
8. What is supine hypotension syndrome? Prevention and treatment
9. Epidural test dose and it's implications
10. Atrial fibrillation – treatment
11. Anticipated difficult intubation – What do we keep ready?
12. Shockable rhythms of cardiac arrest explain
13. What is airway pressure? Explain reasons for increasing airway pressure. How to manage?
14. Hypotension during spinal anaesthesia? Treatment
15. What is Rapid Sequence Intubation? How do we perform and what are the conditions we need to perform RSI technique?

SHORT ANSWERS (Answer any Ten) **10 x 3 = 30 Marks**

16. Treatment of status asthamaticus
17. Causes of sweating during surgery. How do you manage?
18. Importance of blood glucose, ketone bodies, electrolytes in a diabetic patient on day of surgery
19. Criteria for accepting a case. Enumerate
20. Pulseless Electrical Activity
21. Apgar scores
22. Hypotensive anaesthesia
23. Causes of intraoperative tachycardia and treatment
24. Monitors during intraoperative period (Both pre inducation and post induction)
25. **Write a note on Propofol**
26. Laryngeal mask airway
27. Drugs to be avoided in Renal failure

Rajiv Gandhi University of Health Sciences, Karnataka

III Year B.Sc. Anaesthesia Technology Degree Examination – 27-May-2025

Time: Three Hours **Max. Marks: 100**

ANAESTHESIA TECHNOLOGY - ADVANCED – PAPER – III (RS-3)

Q.P. CODE: 3273

Your answers should be specific to the questions asked
Draw neat labeled diagrams wherever necessary

LONG ESSAYS (Question No.2 Choice) **2 x 10 = 20 Marks**

1. Explain various methods of regional analgesia for labour and vaginal delivery. Write a note on walking epidural analgesia
2. Explain various positioning of patients for different surgeries and their complications

   OR

   Anaesthetic management of four year old girl posted for emergency Bronchoscopy for removal of foreign body which is dislodged in to right main bronchus

SHORT ESSAYS (Question No.5 & 10 choice) **10 x 5 = 50 Marks**

3. Hypotension after spinal anaesthesia in a pregnant patient
4. Describe arterial cannulation and its complications
5. Basic Life Support (BLS) "In the hospital and out of the hospital"

   OR

   Neonatal resuscitation
6. Post Dural Puncture Headache (PDPH), What is it? How to evaluate it and manage PDPH?
7. Anesthetic considerations in obesity
8. Anaphylactic shock, intraoperative diagnosis and management
9. Central Venous Pressure (CVP) monitoring, techniques, implications, sites and complications
10. Intra-arterial blood pressure monitoring

    OR

    Venous air embolism – causes, management, prevention
11. Complications of spinal anaesthesia
12. Diagnosis and management of acute severe asthma, intraoperatively

SHORT ANSWER (Question No. 15 & 20 choice) **10 x 3 = 30 Marks**

13. Double lumen tube
14. Aerosol therapy
15. Atropine

    OR

    Ketamine
16. Calculate the maintenance fluids for a 10 kg old child
17. Pulse oximetry
18. **Atropine**
19. Difference between paediatric and adult airway
20. I-gel

    OR

    Bier's block
21. Electrocardiogram (ECG)
22. Laryngospasm

Rajiv Gandhi University of Health Sciences, Karnataka

III Year B.Sc. Anaesthesia Technology & Operation Theatre Technology Degree Examination – 27-May-2025

Time: Three Hours **Max. Marks: 100 Marks**

Anaesthesia & OT Technology – Advanced -PAPER-III

Q.P. CODE: 3395

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

LONG ESSAYS (Answer any two) **2 x 10 = 20 Marks**

1. **How do you prepare operation theatre for patients for mass causality incidents?**
2. What are the things to be kept ready for neurosurgical procedure involving craniotomy and excision of tumour?
3. Describe the process involved in renal transplant.

SHORT ESSAYS (Answer any ten) **10 x 5 = 50 Marks**

4. What are the requirements for a Hysteroscopic procedure?
5. Positioning the patient for endotracheal intubation.
6. Describe anaesthetic technique, endotracheal tube used, positioning and other requirements for a Radical Neck Dissection procedure.
7. What is a double lumen tube? What are the methods used to confirm its proper placement?
8. What is venturi mask? Mention the oxygen percentage that can be delivered with venturi mark?
9. **What is ventilator associated pneumonia? List few simple methods measures that are effective in it's prevention**
10. Describe position for percutaneous Nephro lithotripsy.
11. Explain pain management in terminally ill cancer patients.
12. Cardiopulmonary resuscitation.
13. What is free flap? List the requirements for free flap reconstruction surgery.
14. Write a brief note on post operative monitoring.
15. **Explain CVP insertion technique**

SHORT ANSWER (Answer any ten) **10 x 3 = 30 Marks**

16. Name three vasodilator drugs.
17. Glasgow coma scale.
18. Infusion pump.
19. List emergency drugs.
20. Hand hygiene.
21. Status epilepticus.
22. Bed care.
23. Procedures at the bed side.
24. Colour coding of feeding tube.
25. Burn injury.
26. Echocardiography.
27. Neat labelled diagram of ET tube.

Rajiv Gandhi University of Health Sciences, Karnataka

III Year B.Sc. Operation Technology Degree Examination – 27-May-2025

Time: Three Hours **Max. Marks: 100 Marks**

OPERATION THEATRE TECHNOLOGY – ADVANCED – PAPER-III (RS-3)

Q.P. CODE: 3410

Your answers should be specific to the questions asked
Draw neat labeled diagrams wherever necessary

LONG ESSAYS (Question No.2 Choice) **2 x 10 = 20 Marks**

1. Describe Laproscopic Cholecystectomy
2. What are various types of anaesthesia? What are the Guedel's stages of anaesthesia? Explain endotracheal intubation
   OR
   Write the physical preparation and draping of the site of surgery

SHORT ESSAYS (Question No.5 & 10 choice) **10 x 5 = 50 Marks**

3. Urinary Catheterisation
4. Lithotomy
5. Write the position of patient during lower gastro intestinal procedures
   OR
   Write the benefits of preoperative stoppage of smoking
6. Write a note on total knee replacement
7. Mention the care you will take for a baby delivered by caesarean section
8. Tourniquet
9. Write the drugs used to reduce intracranial pressure
10. Discuss Cholecystectomy and various laproscopic instruments required
    OR
    What are the instruments required for Craniotomy? Mention the indications
11. Write the preparation of a contaminated wound for surgery
12. Write the handling of laproscopic instruments

SHORT ANSWER (Question No. 15 & 20 choice) **10 x 3 = 30 Marks**

13. Propofol
14. Classify suture materials
15. Artery forceps
    OR
    Different types of laryngoscopes
16. Write the instruments used for cutting long bones in orthopaedic surgeries
17. Write the management of post spinal hypotension
18. Colonoscopy
19. Components of anaesthesia machine
20. What is the treatment of bronchospasm?
    OR
    What is the technique of sterilization of endoscopes?
21. Syringe pumps
22. Which are the surgeries that can be done as a day care surgery?

Rajiv Gandhi University of Health Sciences, Karnataka

III Year B.Sc. Operation theatre Technology Degree Examination – 27-Oct-2025

Time: Three Hours **Max. Marks: 100 Marks**

Clinical Operation Theatre Technology - PAPER – I (RS2)
Q.P. CODE: 2926

Your answers should be specific to the questions asked
Draw neat, labeled diagrams wherever necessary

LONG ESSAYS (Answer any two) **2 x 10 = 20 Marks**

1. Define sterilization. Mention different types of sterilization. Add a note on radiation sterilization.
2. Describe layout of OT. Draw a neat sketch explaining requirements of OT.
3. Define OT hazards. Add a note on biological hazards and methods to prevent it.

SHORT ESSAYS (Answer any ten) **10 x 5 = 50 Marks**

4. Describe handling of instruments.
5. Lasers in OT.
6. Position and preparation of a patient posted for left mastectomy.
7. Chemical disinfection.
8. Peripheral support areas in OT.
9. Complication of prone position.
10. Care to take when using alcohol as disinfectant.
11. Indications of wearing eye goggles/face shield as protective equipment by a care giver.
12. Latex allergy.
13. USG in OT – indications and advantages.
14. Explain the process of loading the sterilizer.
15. Explain the process and need of gowning.

SHORT ANSWERS (Answer any ten) **10 x 3 = 30 Marks**

16. Define donning and doffing.
17. Types of cautery and its uses.
18. Breast biopsy – indications.
19. Define asepsis.
20. List three sources of fire hazards in OT.
21. List three surgeries performed on liver.
22. Needle Stick injury.
23. Hydrogen peroxide.
24. Hand wash technique.
25. Types of incisions.
26. Mention three powered surgical instruments.
27. Define fabrication.

Rajiv Gandhi University of Health Sciences, Karnataka

III Year B.Sc. Anaesthesia Technology Degree Examination – 27-Oct-2025

Time: Three Hours **Max. Marks: 100 Marks**

CLINICAL ANAESTHESIA TECHNOLOGY
PAPER – I (RS2)
Q.P. CODE: 2932

Your answers should be specific to the questions asked
Draw neat labeled diagrams wherever necessary

LONG ESSAYS (Answer any Two) **2 x 10 = 20 Marks**

1. Explain the principles of sterilization. Explain in detail autoclaving and quality control of sterilization.
2. Explain in detail, the lung volumes and capacities. Elaborate on terms – dyspnea, hypoxia and cyanosis.
3. Elaborate about patient assessment and preparation for orthopaedic surgery.

SHORT ESSAYS (Answer any Ten) **10 x 5 = 50 Marks**

4. Explain briefly inhalational anaesthetics.
5. Anaemia – define, types
6. Clinical signs of massive blood loss
7. Tube exchanger
8. Arterial blood gas analysis
9. Blood pressure – definition, normal value and types of measurement
10. Suxamethonium
11. Intravenous fluids
12. Analgesics – definition, classification
13. Universal precautions
14. Endotracheal tubes – different types, indications
15. Cylinder storage
16. Artificial respiration
17. Communication to doctors and nurses

SHORT ANSWERS (Answer any Ten) **10 x 3 = 30 Marks**

18. Nasogastric tube
19. Pallor
20. Drugs used for treating hypertension
21. Cardiac arrest – drugs
22. Drugs used for spinal anaesthesia
23. Incentive spinometer
24. Mephenteramine
25. Oxygen therapy
26. Patient positioning
27. List the sizes of intravenous cannula.
28. Temperature monitoring
29. List the blood products.

*****

Rajiv Gandhi University of Health Sciences, Karnataka

III Year B.Sc. Anaesthesia Technology Degree Examination – 27-Oct-2025

Time: Three Hours **Max. Marks: 100**

ANAESTHESIA TECHNOLOGY – CLINICAL – PAPER-I (RS-3)

Q.P. CODE: 3271

Your answers should be specific to the questions asked
Draw neat labeled diagrams wherever necessary

LONG ESSAYS (Question No.2 Choice) **2 x 10 = 20 Marks**

1. Enumerate the emergency drugs to be kept in OT. Discuss any two in detail
2. What preparation to be done in recovery room? Before shifting the case

   OR

   Define Mallampatti classification. What are the various preoperative assessments for difficult airway assessments?

SHORT ESSAYS (Question No.5 & 10 choice) **10 x 5 = 50 Marks**

3. Complications that are common in general anaesthesia
4. Hypokalemia and its anaesthetic implications
5. Blood component therapy

   OR

   Reservoir bag
6. Dopamine
7. Post op seizures and its management
8. Pressure relief valve
9. Types of airways
10. Flow meters in anaesthesia

    OR

    Urine analysis
11. Oropharyngeal toileting
12. Types of endotracheal tubes and its parts

SHORT ANSWER (Question No. 15 & 20 choice) **10 x 3 = 30 Marks**

13. Apparatus dead space
14. Pallor
15. Causes and management of sweating during surgery

    OR

    Vital signs
16. Laryngoscope
17. Advice for smokers and alcoholics
18. Yoke assembly
19. Magill's forceps
20. Signs of sodalime exhaustion

    OR

    Contraindication for nasal intubation
21. Circle absorber
22. Difficult venous cannulation

Rajiv Gandhi University of Health Sciences, Karnataka

III Year B.Sc. Anaesthesia Technology & Operation Theatre Technology Degree Examination – 27-Oct-2025

Time: Three Hours **Max. Marks: 100 Marks**

Anaesthesia & OT Technology – Clinical -PAPER-I

Q.P. CODE: 3393

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

LONG ESSAYS (Answer any two) **2 x 10 = 20 Marks**

1. Describe how to prepare Operation theatre for an endoscopic procedure.
2. What is anaesthesia work station? Describe the parts of anaesthesia work station.
3. What is disinfectant and how do you classify disinfectant? Explain briefly about any one disinfectant.

SHORT ESSAYS (Answer any ten) **10 x 5 = 50 Marks**

4. Explain the types of radiation sterilization.
5. Steps of hand washing.
6. Write briefly on sterilization assembly and packing.
7. Electrocautery.
8. Geriatric anaesthesia.
9. Patient positioning under general anaesthesia.
10. Post anaesthesia care unit.
11. LMA.
12. Oxygen pressure fail safe devices.
13. Ultrasonography.
14. Pulse oximeter.
15. Tourniquets.

SHORT ANSWER (Answer any ten) **10 x 3 = 30 Marks**

16. Hot air oven.
17. Enumerate the different methods of warming the patient.
18. Irrigation fluid in TURP.
19. Oculo cardiac reflex.
20. Gloving techniques.
21. Steps of measuring blood pressure.
22. Defibrillator.
23. Micro surgery.
24. ECG
25. Capnography wave forms.
26. RAE tubes.
27. Intraoperative use of C-Arm.

Rajiv Gandhi University of Health Sciences, Karnataka

III Year B.Sc. Anaesthesia Technology & Operation Theatre Technology
Degree Examination – 29-Oct-2025

Time: Three Hours **Max. Marks: 100 Marks**

Anaesthesia & OT Technology – Applied -PAPER-II

Q.P. CODE: 3394

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

LONG ESSAYS (Answer any two) **2 x 10 = 20 Marks**

1. Describe various blood grouping types. Explain in brief the assessment of blood loss. Write the indications of blood transfusion.
2. Briefly describe the management of difficult airway and instruments and things to be kept ready for the same.
3. List the analgesic drugs. Briefly describe postoperative pain management.

SHORT ESSAYS (Answer any ten) **10 x 5 = 50 Marks**

4. IV fluids.
5. Intraoperative Hypotension – causes, diagnosis and management.
6. TURP syndrome.
7. Mismatched blood transfusion.
8. Laryngospasm – diagnosis and management.
9. Anaesthesia for colonoscopy.
10. Labour analgesia.
11. Tracheostomy.
12. Complications of tracheal intubation.
13. Capnography.
14. Enumerate the differences between adult and infant airway.
15. Anaphylactic shock.

SHORT ANSWER (Answer any ten) **10 x 3 = 30 Marks**

16. Triple maneuver.
17. Pulse oximetry.
18. Expand PCDT. Write two indications for same.
19. Malignant hyperthermia.
20. List three blood components.
21. Peripheral nerve blocks.
22. AMBU bag.
23. Types of laryngoscopes.
24. Types of ET tubes.
25. Three complications of epidural analgesia.
26. **Steps of IVF**
27. Name three causes of tachycardia in intraoperative period.

Rajiv Gandhi University of Health Sciences, Karnataka

RGUHS THEORY EXAMINATION OCTOBER-2025

NODAL CENTRE:CAUVERY INSTITUTE OF HEALTH SCIENCES, MYSORE

Date: 29-10-2025 **Session: Morning**

CORRECTIONS

Subject: ANAETHESIA AND OT TECHNOLOGY APLLIED PAPER II

QP Code:3394

Q. No	QUESTION Appeared As	QUESTION CORRECTED As	REASON FOR CORRECTIONS
26	Labour Analgesia	Steps of IVF	Question Repeated

Rajiv Gandhi University of Health Sciences, Karnataka

III Year B.Sc. Anaesthesia Technology & Operation Theatre Technology Degree Examination – 31-Oct-2025

Time: Three Hours **Max. Marks: 100 Marks**

Anaesthesia & OT Technology – Advanced -PAPER-III

Q.P. CODE: 3395

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

LONG ESSAYS (Answer any two) **2 x 10 = 20 Marks**

1. List the indications for feeding tube placement. Describe the procedure and complications of Ryle's tube insertion.
2. Define universal precautions. Explain the various universal precautions to be followed by health care workers.
3. List the causes of blunt injury abdomen. Explain the clinical features, diagnosis and management of blunt abdominal trauma.

SHORT ESSAYS (Answer any ten) **10 x 5 = 50 Marks**

4. Clinical features and complications of burns.
5. Briefly explain the concept of primary survey for a trauma patient.
6. Define surgical site infections. Classify the surgical site infections.
7. Glasgow coma side.
8. Describe the setting up of a defibrillator.
9. List three clinical features to suspect cervical spine injury. Explain the precautions to be taken while transporting the patient with cervical spine injury.
10. Explain the concepts of BLS (Basic Life Support).
11. Non invasive ventilation.
12. Care of central venous lines.
13. List the indications and complications of tracheostomy.
14. DNR/ DNI.
15. Explain the setting up of emergency drug trolley.

SHORT ANSWER (Answer any ten) **10 x 3 = 30 Marks**

16. Triage.
17. Hand hygiene.
18. Indications for total parenteral nutrition.
19. List three antiarrythmics.
20. Name three transfusion reactions and its management.
21. Name three blood products.
22. Name three indications for urinary catheterization.
23. Eye care in ICU patients.
24. Expand FASTHUG.
25. Indications for temporary cardiac pacemakers.
26. Informed consent.
27. Tracheostomy care.

Rajiv Gandhi University of Health Sciences, Karnataka

III Year B.Sc. Operation Theatre Technology Degree Examination – 27-Oct-2025

Time: Three Hours **Max. Marks: 100 Marks**

OPERATION THEATRE TECHNOLOGY – CLINICAL – PAPER-I (RS-3)

Q.P. CODE: 3408

Your answers should be specific to the questions asked
Draw neat labeled diagrams wherever necessary

LONG ESSAYS (Question No.2 Choice) **2 x 10 = 20 Marks**

1. Write in detail about location, organization and the zones of operation theatre
2. What is sterilization? What are the different types of sterilization used to sterilize operation theatre equipments?

   OR

   How do you separate the operation theatre wastes and how do you dispose them?

SHORT ESSAYS (Question No.5 & 10 choice) **10 x 5 = 50 Marks**

3. Disinfectant solution commonly used in operation theatre
4. Electrically powered instruments
5. Duties of scrub nurse and circulating nurse

   OR

   Peripheral support areas of operation theatre
6. Any five potential sources of injury to the care giver in the operation theatre
7. Electro Cautery – uses and complications
8. Surgical scrub, gowning and gloving
9. Write a brief note on Ultrasonography
10. Write five different injuries during positioning

    OR

    Write five microsurgical procedures
11. What is laser? Write its indications and complications
12. Thermal sterilization

SHORT ANSWER (Question No. 15 & 20 choice) **10 x 3 = 30 Marks**

13. Tracheostomy
14. Name four equipments not allowed in an MRI suite
15. Uses of Lithotomy position

    OR

    Name the surgical procedures on esophagus
16. Endoscopy
17. Fabrication of instruments
18. Liver biopsy
19. Arterial blood gas
20. What is hypothermia?

    OR

    Mention volatile anaesthetic gases
21. Angiography
22. Different positions required for abdominal surgery

Rajiv Gandhi University of Health Sciences, Karnataka

III Year B.Sc Operation Theatre Technology Degree Examination – 29-Oct-2025

Time: Three Hours **Max. Marks: 100 Marks**

OPERATION THEATRE TECHNOLOGY – APPLIED- PAPER-II (RS-3)

Q.P. CODE: 3409

Your answers should be specific to the questions asked
Draw neat labeled diagrams wherever necessary

LONG ESSAYS (Question No.2 Choice) **2 x 10 = 20 Marks**

1. Write in detail about Breathing system. Draw a neat labelled diagram of Bain's circuit. Mention the advantages and disadvantages of Bain's circuit
2. What is tracheostomy? Write the advantages, indications and complications. Write the various types of tracheostomy tube

   OR

   What is endotracheal intubation? Explain in detail the requirements of endotracheal intubation

SHORT ESSAYS (Question No.5 & 10 choice) **10 x 5 = 50 Marks**

3. What is central gas supply? Write the advantages
4. Write a short note on MRI
5. Fumigation of operation theatre

   OR

   Write a short note on suction apparatus
6. Name the IV anaesthetic drugs. How does it works?
7. What is endoscopy? What are the equipments you will arrange for an upper gastro intestinal endoscopy?
8. Role of muscle relaxant in anaesthesia
9. What is hypothermia? Mention the sites to monitor core body temperature. Write any four drugs used to prevent or treat shivering
10. What are the advantages and disadvantages of local anaesthesia

    OR

    Write the complications of blood transfusion
11. What is Minimum Alveolar Concentration? Mention the factors that increase and decrease MAC
12. Balanced anaesthesia

SHORT ANSWER (Question No. 15 & 20 choice) **10 x 3 = 30 Marks**

13. Tests for identifying leaks in anaesthesia machine
14. Inhalational anaesthetic agents
15. Uses of ETCO2 monitoring

    OR

    Write the mallampati classification
16. Mention the drugs to reduce preoperative anxiety
17. Fine needle aspiration cytology
18. Name the complications of spinal anaesthesia
19. Write the purpose of pre oxygenation before the induction of anaesthesia
20. Write the pin index of air, oxygen and nitrous oxide

    OR

    Write the requirements for an emergency tracheostomy
21. Uses of oral airways
22. Write the adverse effects of succinylcholine

Rajiv Gandhi University of Health Sciences, Karnataka

III Year B.Sc. Operation Technology Degree Examination – 31-Oct-2025

Time: Three Hours **Max. Marks: 100 Marks**

OPERATION THEATRE TECHNOLOGY – ADVANCED – PAPER-III (RS-3)

Q.P. CODE: 3410

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

LONG ESSAYS (Question No.2 Choice) **2 x 10 = 20 Marks**

1. Describe the preparation, procedure (anaesthesia and surgical) and complications of TURP.
2. Describe the indications, pre operative evaluation, procedure and complications of total abdominal hysterectomy.
   OR
   Describe the indications, investigations, procedure and complications of Laparoscopic Cholecystectomy.

SHORT ESSAYS (Question No.5 & 10 choice) **10 x 5 = 50 Marks**

3. Thyroidectomy.
4. Discuss various suture methods used in surgery.
5. Colostomy.
   OR
   Central gas supply.
6. Indications and complications of tonsillectomy.
7. Hemiarthroplasty.
8. LSCS surgery.
9. Indications and complications of intercostal drainage.
10. Decompressive craniotomy.
    OR
    Laminectomy and discectomy.
11. Ureteroscopy – Indications, anaesthesia and complications.
12. Uses of vascular clamps.

SHORT ANSWER (Question No. 15 & 20 choice) **10 x 3 = 30 Marks**

13. Three sources of fire in operation theatre.
14. Surgeries done in supine position.
15. Corneal transplantation.
    OR
    Cataract surgery.
16. Bronchoscopy.
17. IV cannula.
18. Operating microscope in ENT.
19. CO_2 cylinder.
20. Adenoidectomy – Indications and complications.
    OR
    Tonsillectomy – Indications and complications.
21. Care of a) Babcock's forceps b) Scissors c) Needle holder
22. Three complication of total knee replacement.

Rajiv Gandhi University of Health Sciences, Karnataka

III Year B.Sc. Operation Theatre Technology Degree Examination - 29-Oct-2025

Time: Three Hours **Max. Marks: 100 Marks**

APPLIED OPERATION THEATRE TECHNOLOGY
PAPER - II (RS2)
Q.P. CODE: 2927

Your answers should be specific to the questions asked
Draw neat labeled diagrams wherever necessary

LONG ESSAYS (Answer any Two) **2 x 10 = 20 Marks**

1. Classify suture materials. Describe briefly various types, uses and size of suture materials
2. Explain peripheral nerve blocks of upper limb and lower limb in detail
3. Enumerate inhalational anesthetic agents and complications of general anesthesia

SHORT ESSAYS (Answer any Ten) **10 x 5 = 50 Marks**

4. What are the safety features in anesthesia machine?
5. Lignocaine
6. CVP monitoring
7. Indications of blood transfusion, intraoperative complications and its management
8. Explain spinal anesthesia and write its complications
9. CSSD
10. MRI-merits and demerits
11. Thiopentone sodium
12. Emergency endotracheal intubation and indications
13. Informed consent
14. Universal precaution
15. Care of anesthetized patients

SHORT ANSWERS (Answer any Ten) **10 x 3 = 30 Marks**

16. Defined MAC
17. HME filters
18. Three uses of $ETCO_2$ monitoring
19. Dopamine
20. Procotoscopy
21. Name four muscle relaxant drugs
22. Name any two radiology examination for breast cancer
23. C-arm
24. Name any three advantages of Bain’s circuit
25. Uses of AMBU
26. Indications for tracheostomy
27. Types of laryngoscopes

Rajiv Gandhi University of Health Sciences, Karnataka

III Year B.Sc. Operation Theatre Technology Advanced Degree Examination – 31-Oct-2025

Time: Three Hours **Max. Marks: 100 Marks**

OPERATION THEATRE TECHNOLOGY ADVANCED - PAPER – III (RS2)
Q.P. CODE: 2928

Your answers should be specific to the questions asked
Draw neat, labeled diagrams wherever necessary

LONG ESSAYS (Answer any Two) **2 x 10 = 20 Marks**

1. Mention indications for mastectomy. Discuss positioning, draping and instrument planning for right mastectomy.
2. Discuss preparation of OT for HbsAg positive case. Mention all the precautions you will take.
3. Name various types of surgery done for cataract. Discuss OT set up and instruments for cataract surgery.

SHORT ESSAYS (Answer any Ten) **10 x 5 = 50 Marks**

4. Complications of TURP procedure.
5. Instrumentation for split skin grafting.
6. Mention various types of thyroid surgery and complications associate.
7. Name one cardiac surgery in child and write down instruments required for the procedures.
8. Dressing for mastoidectomy.
9. Discuss CPR.
10. Advantages of laparoscopy procedures.
11. Instrumentation for vaginal hysterectomy.
12. Precautions taken while handling burns patient for skin grafting.
13. Surgical drain-indications and precautions.
14. Instrumentation for tibia plating.
15. Ryles tube-indication and technique of insertion.

SHORT ANSWERS (Answer any Ten) **10 x 3 = 30 Marks**

16. Indications for Foleys catheterization in OT.
17. Intra-op tight bag.
18. DL scopy – indications.
19. Bone cement.
20. List three complications of tourniquet.
21. Uses of heparin in cardiac OT.
22. List three emergency surgeries.
23. OT laminar air flow.
24. Eye care during prone position.
25. Extubation criteria.
26. List three indications for emergency LSCS.
27. List three cardiac surgeries.

Rajiv Gandhi University of Health Sciences, Karnataka

III Year B.Sc. Anesthesia Technology Examination – 29-Oct-2025

Time: Three Hours **Max. Marks: 100 Marks**

APPLIED ANAESTHESIA TECHNOLOGY PAPER – II (RS2)
Q.P. CODE: 2933

Your answers should be specific to the questions asked
Draw neat, labeled diagrams wherever necessary

LONG ESSAYS (Answer any Two) **2 x 10 = 20 Marks**

1. Classify induction agent. Compare and contrast Thiopentone and Propfol.
2. Mention the complication of spinal anaesthesia. Explain the management of hypotension during spinal anaesthesia.
3. What do you mean by Pre anaesthetic evaluation? Describe in detail importance of preoperative blood investigation.

SHORT ESSAYS (Answer any Ten) **10 x 5 = 50 Marks**

4. Laryngeal Mark Airway (LMA) classic
5. Predictors of difficult airway
6. Artificial Manual Breathing Unit (AMBU) bag
7. Pulmonary artery catheter
8. Tachycardia
9. Increased airway pressure during ventilation
10. Ankle block
11. Normal ECG waveform
12. Uses of ultrasound
13. Stages of anaesthesia
14. Electrical cautery injuries
15. Bain’s circuit

SHORT ANSWERS (Answer any Ten) **10 x 3 = 30 Marks**

16. Sodalime
17. Complications in recovery room
18. OT temperature
19. Potassium chloride
20. Pancuronium
21. Nasal prongs
22. Nerve blocks
23. Delayed recovery
24. Minimum alveolar concentration (MAC)
25. Parts of face mask
26. Name the narcotic drugs.
27. Ketamine

Rajiv Gandhi University of Health Sciences, Karnataka

III Year B.Sc. Anesthesia Technology Degree Examination – 31-Oct-2025

Time: Three Hours **Max. Marks: 100 Marks**

ADVANCED ANAESTHESIA TECHNOLOGY (RS2)
Q.P. CODE: 2934

Your answers should be specific to the questions asked
Draw neat labeled diagrams wherever necessary

LONG ESSAYS (Answer any Two) **2 x 10 = 20 Marks**

1. Discuss the anaesthesia management of geriatric patient posted for hip replacement surgery?
2. Briefly discuss the physiological adaptation of various systems in parturient mother?
3. What is pre anaesthetic evaluation? How do you prepare a diabetic patient posted for elective surgeries?

SHORT ESSAYS (Answer any Ten) **10 x 5 = 50 Marks**

4. Thyroid function test
5. Orthostatic hypotension
6. Labour analgesia
7. BIS monitor
8. PEEP
9. Drugs used for septic shock management
10. Sedatives
11. Ventricular fibrillation and its management
12. CPAP and BiPAP
13. Membrane Oxygenator
14. Status Asthamaticus
15. Mendelson syndrome

SHORT ANSWERS (Answer any Ten) **10 x 3 = 30 Marks**

16. Pre-Tibial Myxedema
17. Air Embolism
18. ADH (Anti Diuretic Hormone)
19. Tramadol
20. Post-operative ambulation
21. Quetelet index
22. Post-operative care unit
23. Aldrete score
24. Difficult airway trolley
25. ICP
26. APGAR
27. Protamine Sulfate

Rajiv Gandhi University of Health Sciences, Karnataka

III Year B.Sc. Anaesthesia Technology Degree Examination – 29-Oct-2025

Time: Three Hours **Max. Marks: 100 Marks**

ANAESTHESIA TECHNOLOGY – APPLIED - PAPER-II (RS-3)

Q.P. CODE: 3272

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

LONG ESSAYS (Question No.2 Choice) **2 x 10 = 20 Marks**

1. Write History of anaesthesia in detail and the methods of anaesthesia.
2. Transfer of patient recovery room – set up, things needed, expected problems, post operative complications and its management.

   OR

   Intra operative management of patients under regional anaesthesia in detail.

SHORT ESSAYS (Question No.5 & 10 choice) **10 x 5 = 50 Marks**

3. Write a note on intravenous anaesthetic agents.
4. Nerve stimulators.
5. Patient monitoring during anaesthesia and surgery.

   OR

   Complications of airway trauma.
6. Reversal of neuromuscular blockage.
7. Stages of ether anaesthesia.
8. Opioid analgesics.
9. Isoflurane.
10. Difficult intubation.

    OR

    Difficult venous cannulation.
11. Muscle relaxants.
12. Nitrous oxide.

SHORT ANSWER (Question No. 15 & 20 choice) **10 x 3 = 30 Marks**

13. Fentanyl
14. Vecuronium.
15. Lignocaine.

    OR

    Milrinone.
16. Benzodiazepines.
17. Hypercapnea.
18. Post operative cardiac arrhythmias.
19. Bupivacaine.
20. Tachycardia.

    OR

    Hypotension.
21. Dobutamine.
22. CPR.

Rajiv Gandhi University of Health Sciences, Karnataka

III Year B.Sc. Anaesthesia Technology Degree Examination – 31-Oct-2025

Time: Three Hours **Max. Marks: 100**

ANAESTHESIA TECHNOLOGY - ADVANCED – PAPER – III (RS-3)

Q.P. CODE: 3273

Your answers should be specific to the questions asked
Draw neat labeled diagrams wherever necessary

LONG ESSAYS (Question No.2 Choice) **2 x 10 = 20 Marks**

1. Define shock. Describe management of hypovolemic shock in patient with poly-trauma
2. Anaesthesia for 60-year-old patient with type II diabetes mellitus with 20 years duration, posted for laparoscopic cholecystectomy. Explain preoperative and intraoperative anaesthetic management

   OR

   Enumerate the indications of one lung ventilation (OLV). Describe the Anaesthetic management of a patient posted for pneumonectomy

SHORT ESSAYS (Question No.5 & 10 choice) **10 x 5 = 50 Marks**

3. Describe cardioversion and defibrillation
4. Describe epidural space and describe three methods to identify the epidural space
5. Describe the ECG findings and management of perioperative myocardial ischemia / infarction

   OR

   Management of COPD
6. Positive End Expiratory Pressure (PEEP)
7. Aorto-caval compression in a pregnant patient and its effect. Add a note on how to prevent it during spinal anaesthesia
8. Monitored Anaesthesia Care (MAC)
9. Tourniquet application during general anaesthesia, describe its effects, advantages and disadvantages and complications
10. Labor analgesia

    OR

    Failed intubation drill in pregnant patient during general anaesthesia administration
11. Double Lumen Tube (DLT)
12. Explain suitable anaesthesia technique for Trans Urethral Resection of Prostate (TURP). Add a note on complications and management of TURP

SHORT ANSWER (Question No. 15 & 20 choice) **10 x 3 = 30 Marks**

13. Capnography
14. Massive blood transfusion protocol
15. Oxytocin side effects

    OR

    Paracetamol poisoning
16. Describe the methods used to maintain normothermia during general anaesthesia
17. Heat Moisture Exchanger (HME)
18. Cormack and Lehane grading
19. Diabetic ketoacidosis
20. Premedication in children

    OR

    O_2 toxicity
21. APGAR score
22. Laryngeal mask airway