Rajiv Gandhi University of Health Sciences, Karnataka

III Year B.Sc. Operation Theatre Technology Degree Examination - 05-Jan-2022

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. Safety features in anesthesia machine.
2. Complications of general anaesthesia and its management
3. Classify vapourisers. Discuss halothane.

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

4. Indication of blood transfusion
5. Indication of endotracheal intubation
6. Indication of epidural anaesthesia
7. Thiopentone sodium
8. Classify opoids. Discuss fentanyl.
9. Complications of spinal anaesthesia
10. Sir W.T.G. Morton
11. Bupivacaine
12. Difficult intubation – Management
13. Midezolam
14. Flow meters
15. Closed circuit

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

16. Contributions of Mc Intosh
17. Contributions of Sir Arthur Guedell
18. Complications of blood transfusions
19. Ether day
20. Adrenaline
21. Pancuronium
22. Causes of hypercardia intra operatively
23. Causes of Hypertension intra operatively
24. Erid tidal CO_2
25. Causes of Bradycardia intra operatively
26. Pin Index
27. Propofol

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Rajiv Gandhi University of Health Sciences, Karnataka

III Year B.Sc. Operation Theatre Technology Advanced Degree Examination – 07-Jan-2022

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. What is coronary artery bypass grafting? Its indications, preparation of a patient for surgery and discuss post-operative complications
2. Classify various surgical instruments and write its applications
3. Explain the preoperative preparation of patient for an abdominal surgery and draping of a surgical site

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

4. Total hip replacement surgery
5. Appendicectomy
6. Measurement and treatment of blood loss
7. Indications of thoracotomy in chest injury
8. Female sterilization
9. Post-operative complications of tonsillectomy write its management
10. Hemorrhoids and its treatment
11. Discuss the hazards in operation theatre
12. Prone position
13. Hysterectomy
14. Informed consent
15. Incision and drainage of abscess

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

16. Ring block
17. Thomas splint
18. Indications for cesarean section
19. Urinary catheterization
20. Name the position used for spinal anesthesia and general anesthesia
21. Frozen shoulder manipulation
22. Lipoma
23. Endoscopes
24. Which are the patents considered to be full stomach before surgery
25. Ondansetron
26. Benefits of laparoscopic surgery
27. C-arm

Rajiv Gandhi University of Health Sciences, Karnataka

III Year B.Sc. Anesthesia Technology Degree Examination – 07-Jan-2022

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. Define COPD. Describe briefly pathophysiology of treatment.
2. Risk factor for ischemic heart disease. Discuss management strategies.
3. Describe in detail physiological changes during pregnancy.

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

4. Liver function tests
5. Manifestation of renal failure
6. Intra operative causes of hypertension
7. Modes of ventilation
8. End tidal carbon dioxide monitoring
9. Supine hypotension syndrome
10. Pulmonary function tests
11. Management of hypothyroid patients
12. Opioids in anaesthesia and sedation
13. Diabetic ketoacidosis
14. Status epilepticus
15. Cardiovascular changes in elderly

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

16. PEEP
17. APGAR
18. Heparin
19. Adrenaline
20. Aerosol therapy
21. How will you take care of arterial line?
22. Myxodema coma
23. Hypocalcemia
24. Bupivacaine
25. Transport to ICU
26. Fentanyl
27. Temperature monitoring

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Rajiv Gandhi University of Health Sciences, Karnataka

III Year B.Sc. Operation theatre Technology Degree Examination – 05-Jul-2022

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. Briefly discuss about drapes.
2. Describe decontamination and disinfection of the instruments.
3. Discuss position, preparation, draping and steps in caesarean section.

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

4. Complications of blood transfusion
5. OT assets
6. Duties first assistant
7. Uses of Ryle's tubes
8. Types and uses of laryngoscope
9. Monitoring of intra-operative and post-operative
10. Ambubag and face mask
11. What are colloids?
12. Hip replacements
13. Precautions and sterilization of infected patient
14. Radiation
15. Ventilators

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

16. OT fumigation
17. Skin grafting
18. Angiography
19. Emergency drugs
20. Colour coding pf pipe lines
21. Tracheostomy
22. Uses of nitrous oxide
23. Orthopedic implants
24. Chemical sterilization
25. Conducts for CABG
26. Ringerlactate
27. Hazards in the operation theatre

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Rajiv Gandhi University of Health Sciences, Karnataka

III Year B.Sc. Operation Theatre Technology Degree Examination - 07-Jul-2022

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. How do you prepare the OT and patient for fibreoptic bronchoscopy and intubation? Explain the technique of fibreoptic guided intubation.
2. Explain different types of blood components. Describe the complications of blood transfusion.
3. Explain the principles, the technique, indications and contraindications for epidural anaesthesia.

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

4. Intra-operative monitoring
5. Technique of spinal anaesthesia
6. Reversal of neuro muscular blockage
7. Crystalloids and colloids
8. What do you mean by balanced anaesthesia? What are the components of balanced anaesthesia?
9. What are the principles of aseptic technique in OT?
10. Write a short note on MRI.
11. What is hypothermia? How do you manage intra operative hypothermia?
12. Mapleson's circuit
13. Classified inhalational agents. Explain about nitrous oxide.
14. BLS – algorithm 2015
15. Intra operative ultrasound

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

16. What do you mean by hypobaric, hyperbaric and isobaric Bupivacaine?
17. Write two uses of end tidal CO2 monitoring.
18. Percutaneous needle aspiration
19. Proseal LMA
20. Ankle block
21. Advantages of arthroscopy procedures
22. Pressure reducing valve
23. Sellick's maneuver
24. Name four method to confirm position of endotracheal tube.
25. Indications of tracheostomy
26. Metoclopramide
27. Name any two advantages of laryngeal mask airway.

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Rajiv Gandhi University of Health Sciences, Karnataka

III Year B.Sc. Operation Theatre Technology Advanced Degree Examination – 11-Jul-2022

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. Discuss in detail preoperative assessment and theatre setting for a patient undergoing neurosurgery under general anesthesia
2. Discuss about Cholecystectomy. Write its indications, intra and post operative complications
3. Discuss problems in positioning a patient on an operation table

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

4. Skin grafting
5. Hysteroscopy
6. Circumcision
7. ICD
8. Vagotomy
9. Informed consent
10. Tracheostomy
11. Open appendicectomy
12. Radical mastectomy
13. Components of anesthesia machine
14. Uses and care of operating microscope
15. Urinary catheterization

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

16. Ultrasound use in regional anaesthesia
17. Propofol
18. Adrenaline
19. Episiotomy
20. Name two instruments used for cutting long bones in orthopedic surgery
21. Shoulder manipulation
22. Phacoemulsification
23. Abscess drainage
24. Management of post spinal hypotension
25. Define day care surgery and name any two surgeries which can be done under day care surgery
26. Vicryl
27. PAP smear

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Rajiv Gandhi University of Health Sciences, Karnataka

III Year B.Sc. Anaesthesia Technology Degree Examination – 05-Jul-2022

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. How will you prepare a patient for cardiac surgery? What monitors is required for it?
2. Effects of smoking on the human body and importance to Anaesthesia
3. How to prepare a operating room for emergency cesarean section with Antepartum hemorrhage?

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

4. Name the different blood products that are available and use of the product.
5. What are the five main points cover during general physical examination?
6. Draw and label the parts of a regular cuffed portex endotracheal tube.
7. Describe about special care for sharp instrumentation.
8. Elaborate on premedication
9. Hypothermia
10. Problems of obesity
11. Complications of general anaesthesia
12. Continous Positive Airway Pressure (CPAP) ventilation
13. Coagulation profile and its use
14. Hypoxia during Anesthesia
15. Prone position
16. Steroid use in anaesthesia
17. Capnugraphy

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

18. Pin index of oxygen, nitrous oxide, colour coding oxygen, nitrous oxide cylinder
19. Induction agents
20. Name three local anaesthesia and its dosages.
21. Vasodilators
22. CVS – system examination
23. Post extubation stridor
24. Combined spinal epidural anaesthesia
25. Enumerate parts of laryngoscope
26. Syringe pump
27. Circle absorbert
28. Use of Midazolam
29. Arterial pressure monitoring

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Rajiv Gandhi University of Health Sciences, Karnataka

III Year B.Sc. Anesthesia Technology Examination – 07-Jul-2022

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. Advanced cardiac life support
2. Discuss in brief operating positions used in various surgeries.
3. Explain in detail complications of general anaesthesia.

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

4. Crystalloids and colloids
5. Double lumen ETT
6. Vecuronium
7. Anaesthesia circuits
8. Different Ventilatory modes
9. Suxamethonium
10. Causes of intra-operative hypotension and management
11. Color coding in anaesthesia
12. Double lumen tubes
13. Post –operative complications of surgical patients
14. TURP and its complications
15. Write down advantages and disadvantages of general anaesthesia.

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

16. Name two advantages of Bain circuit.
17. Entonox
18. Why preoxygeneration is required before inductions anaesthesia?
19. Name any two uses of magills forceps.
20. Treatment of Pulmonary edema
21. Guedel airway
22. LMA
23. Name beta blockers and its uses.
24. Indications for Tracheostomy
25. Laryngoscopy
26. Endoscopes sterilization
27. Caudal block

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Rajiv Gandhi University of Health Sciences, Karnataka

III Year B.Sc. Anesthesia Technology Degree Examination – 11-Jul-2022

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. A sixteen-year girl posted for kyphoscoliosis surgery? Briefly discuss the preparation and its anaesthesia management
2. Define pH? What is the normal pH of blood? Write the normal values and expand the following Pao2, Pco2, Hco3 and base excess and their importance
3. Discuss in detail the preparation of operation theatre prior to GA? Safety check list of anaesthesia machine

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

4. Double Bohr Effect
5. Analgesia in labour
6. LFT
7. Hyperkalemia and its management
8. Pain clinic
9. Malignant hyperthermia
10. DLT
11. Laparoscopic surgeries
12. Cardio version and defibrillation
13. Status epilepticus
14. Pulse oximetry
15. Airway assessment

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

16. Types of heart block
17. Hypothermia and its importance
18. Humidifier
19. PFT
20. Neuromuscular blocking agent
21. Obstructive sleep apnea
22. Mallampatti scoring
23. Ketamine
24. Post Operative Management
25. Supraclavicular block
26. Transport to ICU
27. APGAR

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