Rajiv Gandhi University of Health Sciences, Karnataka

III Year B.Sc. Operation theatre Technology Degree Examination – 10-Dec-2020

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. Describe the principles of construction of an operation theatre.
2. Describe decontamination and disinfection of the instruments.
3. Discuss the instruments and steps of modified radical mastectomy.

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

4. Hydrocele procedure
5. Appendicectomy
6. Classifications of hazards in operation theatre
7. Fabrication of metal instruments
8. Human borne sources of contamination in the operation theatre
9. Peripheral support areas in operation theatre
10. Endoscopy room planning
11. Radiation sterilization
12. Explain various surgical procedures in thyroid.
13. Electrically powered instruments
14. Safeguards against fire and explosion in the operation theatre
15. Hand scrubbing technique

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

16. Liver biopsy
17. Nd: YAG laser
18. Define disinfection.
19. Splenorrhaphy
20. Lateral sphincterotomy
21. Angiography
22. MRI scan
23. Enema
24. Gastric lavage
25. Breast abscess – drainage method
26. Foley's catheterization
27. Tracheostomy

Rajiv Gandhi University of Health Sciences, Karnataka

III Year B.Sc. Operation Theatre Technology Degree Examination - 14-Dec-2020

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 classify Mapleson Breathing System? Draw a neat labeled diagram of bain circuit. Explain advantages and disadvantages of Bain's circuit.
2. What is lithotomy position and how is it managed? What are the complications and their preventive measures?
3. Describe cardiovascular effects of spinal anaesthesia. What are the factors influencing level of spinal block? Name and draw different spinal needles used for the block.

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

4. Prone position
5. Morphine
6. Dopamine and dobutamine - Acts on which receptors, dosage and its uses?
7. What are the safety features in anaesthesia machine?
8. Rapid sequence induction
9. Define MAC (Minimum Alveolar Concentration). Enumerate factors which increase and decrease MAC.
10. Ultrasonography
11. Lignocaine
12. Sterilization of OT table
13. AMBU bags
14. Post tonsillectomy bleeding
15. Pulse oximetry

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

16. Draw a neat labeled diagram of Endotracheal tube.
17. Mallampati classification
18. Soda lime composition, name two indicators to detect CO2 absorbent exhaustion.
19. What is the MAC of sevoflurane, isoflurane and desflurane?
20. What is the purpose of skin preparation for surgery?
21. Name the sites for neuromuscular monitoring.
22. Pin index system for air, oxygen and nitrous oxide
23. Malecot's catheter
24. Name three drugs given to reduce preoperative patient anxiety.
25. Name three adverse effects of succinylcholine.
26. "Manifold" room
27. Name the types of thyroidectomy.

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Rajiv Gandhi University of Health Sciences, Karnataka

III Year B.Sc. Operation Theatre Technology Degree Examination - 26-Aug-2020

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. What are the patient care considerations for diagnostic procedures? Describe your role when a patient is taken up for fluoroscopic examination.
2. Discuss endotracheal intubation. Explain in detail the requirements for intubation.
3. Describe preoperative preparations of the patients in various general surgical procedures.

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

4. Bone scan
5. Radionuclides scan for thyroid
6. Preoperative preparations for thyroid surgery
7. Pathological examination for the breast cases
8. Give any five differences between histological and cytological examination.
9. Give any five indications for spinal anesthesia.
10. Upper GI endoscopy
11. Describe balanced anesthesia.
12. Precautions taken before blood transfusion to the patient
13. Barium study
14. Mammography
15. Emergency intubation

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

16. Name any two radiological examinations done for breast carcinoma
17. Halothane
18. Boyle's machine and its uses
19. Name any two requirements for emergency tracheostomy.
20. How will you preserve the specimen before sending it to pathology lab?
21. Bier's block
22. Pulse oxymetry
23. Bronchoscopy
24. Epidural anesthesia – indications
25. Radio isotope scan
26. Implants in orthopedics
27. Electro Cardio Gram (ECG)

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Rajiv Gandhi University of Health Sciences, Karnataka

III Year B.Sc. Operation theatre Technology Degree Examination – 24-Aug-2020

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. Types of suture materials and explain them in brief.
2. Types of blood groups, blood transfusion and complications
3. Discuss steps in operation mastoidectomy.

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

4. Duties of scrub nurse during surgery
5. Adrenaline
6. Types of anaesthesia and explain spinal anaesthesia
7. Monitoring
8. Difficulties in intubation
9. Scrubbing, gloving and gowning
10. Diagnosis of cardiac surgery
11. Ultrasonography
12. Types of haemostasis
13. Types of positions
14. OT attire
15. What are the disinfectant solutions most commonly used in the OT?

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

16. Precautions and complications of diathermy
17. Uses of drapes
18. Spyrometery
19. Saturation probe
20. Types of incisions
21. Types of airway
22. Sterilization of micro instruments
23. Functions of platelets
24. ABG
25. What is mammography?
26. Fabrication of instruments
27. Chemical sterilization

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Rajiv Gandhi University of Health Sciences, Karnataka

III Year B.Sc. Operation Theatre Technology Advanced Degree Examination – 16-Dec-2020

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 surgery under general anesthesia.
2. Discuss in detail about indications, pre-op evaluation, anaesthesia, procedure and complications of thyroidectomy.
3. Physical preparation and draping of the surgical site.

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

4. Discuss in detail about types of abdominal incisions.
5. Components of anesthesia machine.
6. Total intravenous machine.
7. Radical mastectomy.
8. Discuss about Arthroscopy and arthroplasty.
9. Total hip replacement surgery.
10. Skin grafting.
11. Uses and care of operating microscope.
12. Discuss about Cholecystectomy and various laparoscopic instruments required for the same.
13. Blood warmer.
14. Discuss in detail Cardiopulmonary resuscitation.
15. Methods of sterilization in females.

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

16. Ultrasonography of abdomen.
17. Management of post spinal Hypotension.
18. Different types of laryngoscopes.
19. Indications of tracheostomy.
20. Tourniquet.
21. Safety measures in anesthesia machine.
22. Diathermy and its uses.
23. Lithotomy position.
24. Benefits of laparoscopic surgery.
25. Name various diagnostic procedures for investigations of general surgeries.
26. Precautions to be taken while shifting patient to recovery room.
27. C-arm.

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Rajiv Gandhi University of Health Sciences, Karnataka

III Year B.Sc. Operation Theatre Technology Advanced
Degree Examination – 28-Aug-2020

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. Describe the preparation, monitoring and technical management (both surgical and anaesthetic) of a patient posted for laparoscopic cholecystectomy.
2. Explain in detail complications of general anaesthesia.
3. What is difficult airway? How do you predict difficult airway? What equipments you keep ready to manage anticipated difficult airway?

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

4. Fluid and body warmers
5. Double lumen Endo Tracheal Tube (ETT)
6. Blood products
7. Post tonsillectomy bleeding
8. What are the safety features in anaesthesia machine? How do you check and prepare anaesthesia machine?
9. Total knee replacement
10. Explain in detail non-absorbable suture material.
11. Write a short note on ketamine.
12. Colostomy
13. Operation on thyroid and its complications
14. Cataract surgery
15. Medical suction apparatus

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

16. Defibrillator
17. Inter Coastal Drainage (ICD)
18. Mammography
19. “Manifold” room
20. Post dural puncture headache
21. Bronchoscopy
22. Preparative preparation for OBG surgeries
23. Ivan Magill
24. Atracurium
25. Mendelson syndrome
26. Open Reduction and Internal Fixation (ORIF)
27. Storage of blood

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Rajiv Gandhi University of Health Sciences, Karnataka

III Year B.Sc. Anaesthesia Technology Degree Examination – 24-Aug-2020

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. Discuss the principles of setting up of operation theatre.
2. Discuss the methods of sterilization.
3. What is oxygen therapy? Classify oxygen delivery equipment and indications. Add a note on oxygen toxicity.

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

4. Ambulatory surgery
5. Sevoflurane
6. Explain in detail thermal sterilization.
7. Adjuvant drugs for spinal Anaesthesia
8. Ketamine
9. Combitube
10. Trendelenberg's position
11. Define decontamination, principles and method ultrasonic cleaning.
12. Antacids
13. LMA
14. Informed current
15. Preparation and positioning of patient for neuro-surgery
16. Capnograph
17. Airway monitoring

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

18. ECG
19. ICD
20. Hot air oven
21. Anticholinergics
22. Dopamine
23. APGAR score
24. Safety features in flowmeters
25. Naropharyngeal airway
26. Safety features in cylinder
27. Lateral position
28. Signs of exhaution of sodalime
29. 0_2 flush

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Rajiv Gandhi University of Health Sciences, Karnataka

III Year B.Sc. Anaesthesia Technology Degree Examination – 10-Dec-2020

Time: Three Hours | Max. Marks: 100 Marks

CLINICAL ANAESTHESIA TECHNOLOGY
PAPER – I (RS-2)
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. Pre-Anaesthetic Evaluation of patients.
2. Describe the role of Pre-medication and the drugs used in pre-medication.
3. Discuss your role in management of difficult airway.

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

4. Hemodynamic monitoring used in a typical cardiac surgery.
5. Flow meters.
6. Parts of laryngoscope and complications during laryngoscopy.
7. Hydrocortisone.
8. Urine analysis.
9. Protection of patients during positioning.
10. Oxygen and nitrous oxide cylinders, its concentrations, pressure regulators and pin indix with colour coding.
11. Recovery room complications.
12. Nor-epinephrine.
13. Oropharyngeal airways.
14. Reversal of anaesthesia.
15. Thyroid function tests.
16. Causes of intra operative bradycardia.
17. Airway management.

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

18. Consent.
19. CPR.
20. Name three intravenous fluids and its uses.
21. ABG.
22. Ventricular tachycardia.
23. Indications for blood transfusion.
24. Nitrous oxide.
25. Hypothermia.
26. Dobutamine.
27. What is NPO?
28. Care of patients with prosthesis.
29. Syringe pump.

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Rajiv Gandhi University of Health Sciences, Karnataka

III Year B.Sc. Anesthesia Technology Examination – 26-Aug-2020

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. Enumerate Opiods. Discuss any two in detail
2. Classify volatile anesthetics and discuss any two
3. Physiology of neuromuscular transmission

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

4. Halothane
5. Atracurium
6. Neostigmine
7. Atropine
8. Heparin
9. Nasal Prongs
10. Backup ventilation
11. Humidity in breathing air
12. Anaesthasia masks
13. Sodalime
14. Baric life support
15. Ketamine

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

16. Name induction agents
17. Name analysis used during analgesics
18. Name muscle relaxants
19. Uses of ETCO2
20. Uses of temperature monitoring
21. Causes of hypothermia during anaesthesia
22. Name complications of Intubation
23. Enumerate complications of spinal anaesthesia
24. Uses of Dobutamine
25. Uses of calcium
26 How to sterilize ET Tubes
27. Oxygen flow meters

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Rajiv Gandhi University of Health Sciences, Karnataka

III Year B.Sc. Anesthesia Technology Examination – 14-Dec-2020

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. Discuss the anaesthetic management of a patient with hypertension undergoing emergency obstructed inguinal hernia.
2. Describe the safety mechanism used in vaporizers. Discuss in detail about halothane.
3. Define hypoxia. Describe the causes, clinical sign's & management of hypoxia.

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

4. Metabolic acidosis
5. Causes for intra operative bradycardia - How will you manage?
6. Complications of spinal anaesthesia - How will you manage?
7. Vecuronium bromide
8. What are all the causes for difficult intubation? How will you manage?
9. Causes for delayed recovery from anaesthesia
10. Morphine
11. Ankle block
12. Dopamine
13. Neuromuscular monitoring
14. Capanography
15. Propofol

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

16. Ether day
17. Neostigmine.
18. Monitoring during anaesthesia
19. Treatment of postoperative nausea and vomiting
20. Causes for intra operative hypotension
21. Causes for tachycardia during anaesthesia
22. Assessment of blood loss during anaesthesia
23. Rocuronium
24. Minimum alveolar concentration
25. Atropine v/s Glycopyrulate
26. Nitrous oxide
27. Horce walls

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