Rajiv Gandhi University of Health Sciences, Karnataka

Year B.Sc. Operation theatre Technology Degree Examination – 30-Jul-2021

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. What is fumigation? Explain the procedure, Agents used, Precautions and hazards.
2. Discuss the peripheral support areas in operating room with diagrams.
3. How surgical instruments are disinfected and sterilized after it is used on a HIV patient.

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

4. Simple mastectomy.
5. Handling and maintenance of surgical instruments.
6. Define hernia. Explain types of hernia.
7. Surgical gloving.
8. Preparation of patient for emergency laparotomy.
9. Classify hazards in Operation theatre.
10. Vagotomy.
11. ‘LASER’ in surgery.
12. Sources of contamination in hospital.
13. Principles of skin preparation.
14. Cholecystectomy. Its indication and procedure.
15. Laparoscopic surgery.

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

16. Define sterilization and disinfection.
17. ETO sterilization.
18. Lithotomy position complications.
19. What are hemorrhoids?
20. Name three specialized surgical instruments.
21. Gastroscopy.
22. Universal precautions.
23. Types of drapes.
24. Different types of breast biopsy.
25. Name electrically powered instruments.
26. Complications in liver surgery.
27. Name two precautions taken while using electro Cautery.

Rajiv Gandhi University of Health Sciences, Karnataka

III Year B.Sc. Operation Theatre Technology Degree Examination - 02-Aug-2021

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. Indications of Blood transfusion, Intra-operative complications and its management.
2. Difficult Airway management. Explain tracheostomy tube and its procedure of insertion.
3. Various surgical position and precautions taken while positioning.

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

4. Enumerate various radiologic examinations.
5. Preparation of patient posted for emergency laparotomy.
6. Write down the advantages and disadvantages of local anaesthesia.
7. Maintenance of Asepsis in OT.
8. Regional anaesthesia techniques.
9. Handling of endoscopic instruments and fine instruments.
10. Endotracheal intubation.
11. Thiopentone sodium.
12. Complications of spinal anaesthesia.
13. Care of Anaesthetised patients.
14. Electrocautery, where it is used, precautions and hazards.
15. What is Hypothermia? Sites of monitoring body temperature and how will you manage Intra-operative hypothermia.

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

16. Flash sterilization.
17. Define MAC.
18. Name any two Inhalational Anaesthetic agents.
19. Adrenaline.
20. Cardiac defibrillator.
21. Precautions before extubation of patient.
22. Suction Apparatus.
23. Three uses for $ETCO_2$ monitoring.
24. Propofol.
25. Name two uses of Magill forceps.
26. HME filters.
27. Management of hypotension in Anaesthesia.

Rajiv Gandhi University of Health Sciences, Karnataka

III Year B.Sc. Operation Theatre Technology Advanced Degree Examination – 04-Aug-2021

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 regarding preparation of patient who is under going abdominal surgery
2. Discuss in detail regarding – Anesthesia, positioning and surgical steps of patients under going lobectomy
3. Discuss thyroidectomy – indication preparation and steps of surgery

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

4. Describe aseptic – uretheral catheterization
5. Describe painting and draping in open heart surgery
6. Discuss types of skin grafting
7. Surgical steps of dilatation and curettage
8. What is inter position gratting – what are the various materials used
9. What is tonsillectomy – mention indication and few complications
10. Describe craniotomy
11. Spinal anesthesia
12. Describe various position given in uro surgery
13. Describe instrument planning for abdominal hysterectomy
14. Aorto femoral bypass grafting describe in short
15. What is cataract. Describe cataract surgery

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

16. Treatment of pleural effusion
17. What is pedicol graft
18. What is allograft
19. Name few surgeries done in lithotomy position
20. What is trendelenberg position
21. Name few complications of spinal anesthesia
22. Mention sutures material used commonly in cardiac surgery
23. What is commondo operation
24. What surgery is done for fracture neck femure
25. Cat gut
26. What is full term normal delivery
27. What is sternotomy where is it done

Rajiv Gandhi University of Health Sciences, Karnataka

III Year B.Sc. Anesthesia Technology Examination – 02-Aug-2021

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. What are the various routes of administration of opioids? Describe the merits and demerits of each.
2. Describe the functional analysis of Bain's circuit. How will you check the functional integrity of the Bain's Circuit?
3. How will you identify the epidural space? Discuss the complications associated with epidural anaesthesia and its management.

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

4. Isoflurane
5. Stages of anaesthesia
6. Failed intubation drill
7. Suxamethonium
8. What are all the immediate postoperative complications? How will you manage?
9. Local anaesthesia toxicity
10. Pulse oxymetry
11. Causes for intra operative Bronchospasm and its treatment
12. Dobutamine
13. Blood transfusion reaction
14. Awareness during anaesthesia
15. Classify anti hypertensive drugs.

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

16. Treatment of intra operative MI
17. Check list of anaesthesia machine
18. Thermal injuries during anaesthesia
19. Oxygen toxicity
20. Nitroglycerine
21. Beir's Block
22. Basic life support
23. Pethadine
24. Flow meters
25. Sterilization of anaesthesia equipments
26. Name some anti hystaminics.
27. Causes of respiratory acidosis

Rajiv Gandhi University of Health Sciences, Karnataka

III Year B.Sc. Anesthesia Technology Degree Examination – 04-Aug-2021

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. Describe in detail Physiological changes during pregnancy.
2. Discuss Anaesthesia management for patients with hyperthyroidism for thyroidectomy.
3. What are the minimum standards of monitoring in anaesthesia? Discuss about preoperative evaluation of patient.

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

4. Diabetic ketoacidosis
5. Intra operative causes of hypertension
6. Pre-operative consideration in a pediatric case
7. Complications of blood transfusion
8. Pulmonary function test – bedside and clinical
9. Modes of ventilation
10. Complications of Epidural anaesthesia
11. Newer airway devices
12. Liver function tests
13. Opioids in anaesthesia
14. Endtidal carbon dioxide monitoring
15. Temperature regulation and monitoring

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

16. APGAR score and uses
17. Atropine – dose and uses
18. PEEP
19. Vecuronium
20. Hypokalemia
21. Sodium bicarbonate
22. Double lumen endotracheal tubes
23. What is Atrial fibrillation and its treatment?
24. What is functional residual capacity?
25. Transport to ICU
26. Body mass index
27. Post spinal headache