



SRI DEVARAJ URS ACADEMY OF HIGHER EDUCATION & RESEARCH

(A DEEMED TO BE UNIVERSITY)

B.Sc. Allied Health Sciences Third Year Semester-V

April 2024 Examination

B.Sc. Anesthesia & Operation Theatre Technology

Time : 2.30 Hrs.

[Max. Marks : 80]

PAPER-I

OPERATION THEATRE TECHNOLOGY - CLINICAL

Q.P Code : J5170

Your answers should be specific to the questions asked.

Draw neat labelled diagrams wherever necessary.

LONG ESSAY

2X10=20 Marks

1. 45 year female posted for cholecystectomy, how do you prepare the patient and OR..
2. Write a note on biochemistry investigations. Write about ABG with normal values.

SHORT ESSAY(Answer any six)

6X5=30 Marks

3. Define hand washing technique
4. Informed consent
5. Radiation sterilization
6. Premedication
7. Decontamination
8. Thiopentone
9. Principles of sterile technique
10. Fentanyl

SHORT ANSWERS (Answer any ten)

10x 3=30marks

11. Suction apparatus
12. Monitoring chemical disinfection
13. Personal protective equipment
14. Pulse oximetry
15. Gloving technique
16. Surgical suit
17. Define aseptic technique
18. Neostigmine
19. LMA
20. Flow meter
21. Airway
22. Anaesthesia impact on smoking patient.

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PAPER-II

Operation Theatre Technology Applied

Q.P Code : J5180

Your answers should be specific to the questions asked.

Draw neat labeled diagrams wherever necessary.

Long Essay

2X10=20 Marks

1. What are the various inducing agents used in anaesthesia, explain any one in detail.
2. What are the safety features in anaesthesia machine

Short Essay (Any Six)

6X5=30 Marks

3. Choice of anaesthesia for circumcision
4. Biomedical waste disposal in OT
5. Sterilization of laryngoscopes
6. Preparation of patient & OT for laparoscopic tubectomy
7. Pre op preparation of check list
8. Write the methods of sterilization of endoscopes
9. Enumerate the management of reactions following blood transfusion
10. Choice of anaesthesia for percutaneous nephrolithotomy

Short Answers (Any ten)

10X3=30 Marks

11. Drugs used in hypovolemic shock
12. Levobupivacaine
13. Mephentermine
14. Atropine
15. Choice of anaesthesia for bilateral abdominal tubectomy
16. Drugs used to decrease the heart rate
17. Nasopharyngeal airways
18. Liquid oxygen
19. Non rebreathing valves
20. Paracetamol
21. Sodium bicarbonate
22. Central venous cannulation

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PAPER-III

Subject: OPERATION THEATRE TECHNOLOGY - ADVANCED

Q.P Code : J5190

Your answers should be specific to the questions asked.

Draw neat labelled diagrams wherever necessary.

LONG ESSAY

2 X 10 = 20

1. Enumerate the instruments needed for laparoscopic cholecystectomy. Explain about the trolley setup and complications of cholecystectomy
2. Preoperative preparation, Anaesthetic management of patient for TURP surgery

SHORT ESSAY (Answer any six)

6X5=30

3. Care of instruments before and after use in theatre
4. Anaesthesia technique, trolley setup for open appendectomy
5. Cystoscopy
6. Knee arthroscopy
7. Laryngeal mask airway
8. Tonsillectomy – Anaesthesia, patient position
9. Cardiac monitoring
10. Types of suture materials

SHORT ANSWERS (Answer any ten)

10X3=30

11. Position of patient in IVDP
12. K-Wire
13. HIP – compression screw
14. Capnography
15. Spinal needle
16. Ovum forceps
17. CPR
18. Sterile bladder catheterization
19. Complications of long bone surgery
20. Glasgow coma scale
21. Tray setup for BPH
22. Massive transfusion protocol

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B.Sc. Allied Health Sciences Second Year Semester-V

April 2024 Examination

B.Sc. Anesthesia and Operation theatre Technology

Time : 2.30 Hrs.

[Max. Marks : 80]

Subject : Anesthesia and Operation Theatre Technology-Clinical

Q.P Code : K5171

Your answers should be specific to the questions asked.

Draw neat labelled diagrams wherever necessary.

LONG ESSAY QUESTIONS

(2X10=20)

1. Explain different types of Endotracheal tubes are used in anaesthesia practice, draw a neat diagram of cuffed Endotracheal tube
2. Discuss various sterilization methods, Write on Radiation sterilization with advantages and disadvantages.

SHORT ESSAY QUESTIONS

(6X5=30)

3. Manual Cleaning Method
4. Ketamine
5. Airway Assessment for difficult intubation
6. Types of cylinders used in Anaesthesia
7. Thermal sterilization
8. Layout of operating room .

SHORT ANSWERS QUESTIONS

(10X3=30)

9. Basic Hand wash steps
10. Define asepsis
11. Laryngoscope
12. suction catheter in tracheostomy
13. Atropine
14. Vaporizer
15. Closed circuit
16. Nasal Airway
17. Transition zone
18. Colloids.

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B.Sc. Allied Health Sciences Second Year Semester-V

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B.Sc. Anesthesia and Operation theatre Technology

Time : 2.30 Hrs.

[Max. Marks : 80]

Subject : Anesthesia and Operation Theatre Technology- Applied

Q.P Code : K5172

Your answers should be specific to the questions asked.

Draw neat labelled diagrams wherever necessary.

LONG ESSAY QUESTIONS

2X10=20 Marks

1. Mention the steps involved in epidural catheter insertion. Mention the indications and contraindications for epidural anaesthesia.
2. Mention different sites used for central venous cannulations. Mention the steps and complications for central venous cannula insertion.

SHORT ESSAY QUESTIONS

6X5=30 Marks

3. Modified Aldrete score.
4. Jackson & Rees circuit – mention its parts, working principle and sterilization.
5. Colour coding of IV cannula and infusion rate in each type of cannula.
6. Draw a neat labeled diagram of endotracheal tube. Explain in detail about flexometallic tube.
7. Components of high quality CPR.
8. Adrenaline – dose, uses and routes of administration.

SHORT ANSWER QUESTIONS

10X3=30 Marks

9. Nasal airways. .
10. Safety features in vaporizer.
11. Causes for intraoperative tachycardia.
12. Mention three difficulties you anticipate in obese patients.
13. Nor-adrenaline.
14. Precautions to be taken during positioning of the patient.
15. Different types of endotracheal tube.
16. Classify local anaesthetic agents.
17. Hanger – yoke assembly.
18. Structures pierced while giving spinal anaesthesia.

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B.Sc. Anesthesia and Operation theatre Technology

Time : 2.30 Hrs.

[Max. Marks : 80]

Subject : Anesthesia and Operation Theatre Technology-Advanced

Q.P Code : K5173

Your answers should be specific to the questions asked.

Draw neat labelled diagrams wherever necessary.

LONG ESSAY QUESTIONS

(2X10=20)

1. Discuss the preoperative preparation and anaesthetic management of patient posted for emergency lower segment cesarian section
2. Explain different patient position in surgery, write complication and management of Prone position

SHORT ESSAY QUESTIONS

(6X5=30)

3. PFT
4. Knee arthroscopy
5. Pathophysiology of COPD
6. ACLS
7. Circumcision
8. Draw a neat diagram of AMBU bag, mention the parts

SHORT ANSWERS QUESTIONS

(10X3=30)

9. Absorbable suture material
10. ETCO₂
11. Surgical stapler.
12. Epidural needles
13. PCNL.
14. Tubectomy
15. Cystoscopy.
16. Color coding for IV canal.
17. Bone Fracture
18. Organ transplantation

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