

SRI DEVARAJ URS ACADEMY OF HIGHER EDUCATION & RESEARCH
(A DEEMED TO BE UNIVERSITY)



B.Sc. Allied Health Sciences Third Year Semester-VI
March 2024 Examination

B.Sc. Anesthesia & Operation Theatre Technology

Time : 2.30 Hrs.

[Max. Marks : 80]

PAPER-I

Operation Theatre Technology - Clinical

Q.P Code : J6200

Your answers should be specific to the questions asked.

Draw neat labeled diagrams wherever necessary.

Long Essay

2 X 10 = 20 Marks

1. How you will prepare the OT and position in the patient for craniotomy, how do you prevent complications in prone position?
2. Explain various endotracheal tubes are using in OR, mention the parts with neat diagram.

Short Essay (Answer any Six)

6 X 5 = 30 Marks

3. Bain circuit
4. Fentanyl
5. LASER.
6. Handling surgical instruments during procedure
7. Describe the various uses of ultrasonography in OT.
8. Cholecystectomy
9. Difference between crystalloids and colloids
10. Difficult intubation cart

Short Answers (Answer any Ten)

10 X 3 = 30 Marks

11. Saddle block.
12. Spinal needles .
13. Double lumen tube
14. Precautions during laser surgery in OT.
15. Checking of laryngoscope
16. Microsurgery
17. Complications of IV cannulation
18. Universal precautions.
19. Three different types of LMA
20. Three drugs in premedication
21. Oxygen mask
22. Airway

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PAPER-II

Operation Theatre Technology-Applied

Q.P Code : J6210

Your answers should be specific to the questions asked.

Draw neat labeled diagrams wherever necessary.

Long Essay

2 X 10 = 20 Marks

1. Etiology and management of intraoperative hypotension.
2. Classify local anesthetic agents. How will you identify and treat local anesthetic systemic toxicity.

Short Essay (Answer any Six)

6 X 5 = 30 Marks

3. Mallampati classification with diagrams
4. Fentanyl – uses, dose and side effects.
5. Adjuvants in spinal anaesthesia.
6. Mention the steps in fiberoptic intubation.
7. Nil-per oral guidelines.
8. Colour coding of cylinders. Mention the safety features in the cylinder.
9. Uses of ultrasound in anaesthesia.
10. Modified Aldrete score.

Short Answers (Answer any Ten)

10 X 3 = 30 Marks

11. Diffusion hypoxia
12. Safety features in the flow metres
13. Mephentermine
14. Mention three non-depolarizing muscle relaxants.
15. Bougie
16. Mention the cardiac arrest rhythms.
17. Treatment of hypoglycemia in the operation theatre.
18. Nor-adrenaline
19. Reservoir bag.
20. Types of endotracheal tube.
21. Nasal airways.
22. Importance of test-dose in epidural anaesthesia.

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[Max. Marks: 80]

PAPER-III

Operation Theatre Technology-Advanced

Q.P Code: J6220

Your answers should be specific to the questions asked.

Draw neat labeled diagrams wherever necessary.

Long Essay

2 X 10 = 20 Marks

1. 45 year male posted for liver transplantation, how do you prepare the patient for surgery?
2. How do you prepare OT for Breast surgeries? Explain how do you manage intraoperative hypothermia ?

Short Essay (Answer any Six)

6 X 5 = 30 Marks

3. Post-operative complications for epidural anaesthesia
4. Describe the patient preparation for cardiac surgeries
5. FESS
6. Craniotomy
7. Post-operative complications of Thoracic surgeries
8. Tonsillectomy
9. Precautions during patient transport to ICU
10. Apgar scoring system

Short Answers (Answer any Ten)

10 X 3 = 30 Marks

11. Airway uses in CPR
12. ABG
13. WTG Morton
14. Suction catheter
15. Choice of endotracheal tube
16. Preparation of a patient for Skin grafting
17. Tubectomy
18. Mention 6 complications of Blood transfusion
19. PACU
20. Three reasons for intraoperative hypoxia
21. Double lumen tube
22. Write briefly about intra ocular implantation.

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