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

M.Sc. Anaesthesia & Operation Theatre Technology First Year (Semester-I)

April 2025 Examination
Time: 3 Hrs. [Max. Marks: 100]

Review of Applied Sciences Q.P Code: MA1130

Your answers should be specific to the questions asked. Draw neat labelled diagrams wherever necessary.

LONG ESSAY $2 \times 20 = 40 \text{ Marks}$

- 1. Explain about various types of liver diseases and their management. What is the anaesthetic management a patient with chronic liver disease undergoing total hip replacement?
- 2. Write in detail about the pathophysiology, clinical features, types, diagnosis and management of COPD. Write the differences between chronic bronchitis and Emphysema.

SHORT ESSAY $6 \times 10 = 60 \text{ Marks}$

- 3. Pulmonary function tests.
 - 4. What is balanced anaesthesia and explain about it? Dexmeditomidine.
 - 5. Explain about Chloride shift and oxygen cascade.
 - 6. Conduction system of heart.
 - 7. Myocardial infarction. Add a note on NTG.
 - 8. Write about atropine and Glycopyrolate.

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Time: 3 Hrs. [Max. Marks: 100]

Anaesthetic Equipments and Procedures Q.P Code : MA1140

Your answers should be specific to the questions asked. Draw neat labelled diagrams wherever necessary.

 $\underline{\text{LONG ESSAY}} \qquad \qquad 2 \times 20 = 40 \text{ Marks}$

- 1. What is the classification of LMAs? Draw a neat labelled diagram of classic LMA. Explain in detail about I-gel, intubating LMA and Baska mask.
- 2. Explain in detail about the equipment, instruments and drugs required for spinal, epidural and caudal anaesthesia. Add a note on indications, procedure, drugs used and complications of Spinal anaesthesia.

 $\underline{SHORT\ ESSAY}$ 6X 10 = 60 Marks

- 3. Describe the safety features in anaesthesia workstation and explain how they work in detail.
- 4. TOF.
- 5. Define cardiac output. What are cardiac output monitors and how do they work.
- 6. What is gas manifold? What are the types of cylinders and add a note on their safety features.
- 7. What is the principle behind ultrasound? Mention the uses of ultrasound in OT, ICU and emergency room.
- 8. Explain in detail about Sub mental intubation and retrograde intubation.



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M.Sc. Anaesthesia & Operation Theatre Technology (Semester-I) April 2025 Examination

Time: 3 Hrs. [Max. Marks: 100]

Pharmacology of Anaesthetics O.P Code: MA1150

Your answers should be specific to the questions asked. Draw neat labelled diagrams wherever necessary.

LONG ESSAY

 $2 \times 20 = 40 \text{ Marks}$

- 1. Classify the drugs used in treating hypertension. Describe the mechanism of action and adverse effects of ACE inhibitors.
- 2. Write the classification of opioid analgesics. Explain the pharmacological action of morphine and fentanyl with their clinical implications.

 $\underline{SHORT ESSAY} \qquad \qquad 6 \text{ X } 10 = 60 \text{ Marks}$

- 3. What are antiarrhythmics? Write the classification of antiarrhythmics. Add a note on loxicard.
- 4. Classify muscle relaxants and add a note on succinylcholine.
- 5. Crystalloids.
- 6. Intravenous induction agents.
- 7. Explain in detail about hazards related to blood transfusion.
- 8. Mention various applications of corticosteroids and add a note on their uses in OT and ICU