

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

Post Graduate Degree Examination - May 2018

Time : 3 Hrs

Max Marks : 100

M.D ANAESTHESIOLOGY

Paper - I

Paper Code : RS-3301

Your answers should be specific to the questions asked.

Draw neat labeled diagrams wherever necessary.

LONG ESSAY

10 X 10 = 100

1. Write a note on Epstein Macintosh Oxford Vaporizer
2. Discuss hagen -poiseuille equation ,why is it clinically relevant
3. Describe with neat labeled diagram of different types of Laryngoscopes and its specific uses.
4. Classify Supra Glottic Airway Devices. Write in brief about indication & contra indications
5. Explain in detail about antiepileptic drugs and Anaesthetic relevance
6. Classify anti thyroid drugs and their uses
7. Describe the anatomy and physiology of neuro muscular junction and write a note on Neuro Muscular transmission.
8. Write a note on Diffusion Hypoxia.
9. What are the minimal monitoring standards in anaesthesia.
10. Hyponatremia - Discuss the etiology and management.

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Paper - II

Paper Code : RS-3302

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LONG ESSAY

10 X 10 = 100

1. Discuss how to diagnose and treat venous air embolism.
2. Describe the transport of carbon dioxide in blood. Explain Bohr, Double bohr and Haldane effect.
3. Discuss about Neodymium-doped Yttrium Aluminum Garnet (NDYAG) Laser
4. Define respiratory failure. What are the types of respiratory failure? write a note on permissive hypercapnia.
5. Explain the terms Minimum Alveolar Concentration, Blood gas solubility coefficient of inhalational anaesthetic agents. Describe why induction is faster with sevoflurane than halothane.
6. Define Functional Residual Capacity. Explain the importance of FRC in normal respiratory function. Add a note on measurement of FRC.
7. Describe pathophysiology of Disseminated Intravascular Coagulation and anaesthetic implications.
8. Write a note on placental barrier. Describe placental transfer of various anaesthetic agents.
9. Explain Fascia Iliaca Compartment block
10. Describe the different ocular blocks and write the anaesthetic management of elderly patient without comorbidities for cataract extraction

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Paper - III

Paper Code : RS-3303

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LONG ESSAY

10 X 10 = 100

1. Discuss about anaesthesia for MRI in paediatric age group.
2. Write a note on anatomy and physiology of Tracheo oesophageal fistula and its anaesthetic implications.
3. Classify geriatric patients. Elaborate the various monitoring methods used during the perioperative period.
4. What is Obturator reflex? How to prevent this reflex during surgery
5. Discuss Anaesthesia management in a patient with congenital hyperbilirubinemia for inguinal hernia repair
6. Explain Physiological changes associated with liver diseases
7. Write in detail about Thyroid storm & its Management
8. Classify Ant thyroid drugs, write briefly about its uses.
9. Discuss in detail about various blood conservation techniques
10. Discuss about Anaesthesia in the elderly

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Paper - IV

Paper Code : RS-3304

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LONG ESSAY

10 X 10 = 100

1. Draw a neat diagram of pain pathways and write management of low backache
2. Define phased array transducer and describe the role of trans thoracic echocardiography in ICU
3. Discuss surviving sepsis guidelines 2017
4. Define day care anaesthesia and write in detail about newer drugs used during perioperative period for patient undergoing day care anaesthesia
5. Discuss the management of perioperative cardiac arrest.
6. Describe pathophysiology of hypovolemic shock and its management.
7. Describe the recent advances in measuring depth of Anaesthesia.
8. Bispectral index (BIS) monitoring in Anaesthesia practice.
9. Enumerate Merits and demerits of supralaryngeal airway devices. Describe proseal LMA.
10. Methods of sterilization of anaesthetic equipments. Add a note on plasma sterilization.