#### PAPER - I

Time : 3 hours Max. Marks : 100

ANAES/D/10/01/I

Attempt all questions in order. Each question carries 10 marks

- Describe clinical presentation, pathophysiology and management of malignant hyperthermia.
- Describe the pharmacokinetics and pharmacodynamics of etomidate. Discuss in brief its role in clinical practice.
- Describe ventilatory strategy in management of Adult Respiratory Distress Syndrome.
- Describe the causes and management of venous air embolism.
- What is recombinant Factor VIIa? Describe the clinical usage of it.
- Describe regional block for removal of infected corn foot.
- 7. What are the criteria for discharge from post anesthesia care unit?
- Enumerate the "Circulatory Assist Devices". What are the indications, contraindications and complications of IABP?
- Enumerate "Classical Biological Warfare Agents". Describe physical findings, pathogenesis and treatment of anthrax.
- What is port-operative jaundice? Describe its causes.

# ANAES

### PAPER - II

Time : 3 hours

Max. Marks : 100

ANAES/D/10/01/II

Attempt all questions in order. Each question carries 10 marks

- Enumerate the indications of Tracheostomy. Describe different techniques of performing percutaneous dilatational tracheostomy.
- What are the causes of obstetrics hemorrhage? Describe its management including anesthetic.
- Describe consent in anesthesia practice including ethical and legal aspects.
- Enumerate causes of post-operative visual loss. Describe the pathophysiology and its management.
- Describe various components of 'surviving sepsis' guidelines.
- Describe the complications associated with sitting position during posterior fossa surgery and their management.
- Describe the anesthetic management in a patient scheduled for MRI.
- Describe the risk factors and predictors of post-operative nausea and vomiting. Describe its management in the pre-operative period.
- Describe pathophysiology, clinical features, diagnosis and management of fat embolism.
- 10. What are the pre-operative considerations in Total Hip Arthroplasty?
  What are the goals of its intra-operative management?

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## ANAESTHESIOLOGY

#### PAPER - III

Time

: 3 hours

Max. Marks : 100

ANAES/D/10/01/III

Attempt all questions in order. Each question carries 10 marks.

- 1. Describe clinical manifestation of diabetic autonomic neuropathy. What are its implications?
- What are the pathophysiological insults which exacerbate the primary 2. brain injury following head trauma? How can these effects be reduced?
- 3. What are the indications of Renal Replacement Therapy? List different modes of renal replacement therapy. Discuss the role of CRRT in Soldnic specific shock.
  - Discuss the pre-operative evaluation and preparation of a 55 year old male with bronchiectasis scheduled for right lower lobe excision.
  - 5. Describe the techniques for anaesthetizing airway for awake fiberoptic laryngoscopy and intubation through nasal route in an adult with restricted mouth opening.
  - Describe the anesthetic considerations in patients having coronary 6. artery stents.
  - Classify cardiomyopathies. Describe management of a 60 year old 7. male with dilated cardiomyopathy scheduled for laparotomy.
  - 8 Describe anesthetics concerns for regional anesthesia in a patient on anticoagulants.
- Describe the principles of weaning from mechanical ventilation. 9.
- 10. Describe the effects of smoking and its anesthetic implications.

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## ANAESTHESIOLOGY

#### PAPER - IV

Time

: 3 hours Max. Marks: 100

ANAES/D/10/01/IV

Attempt all questions in order. Each question carries 10 marks

### Write short notes on:

- Draw a diagram to show various lung volumes and capacities. Describe the spirometry features of patients with obstructive and restrictive pulmonary disorder.
- 2. Describe the anatomy of Stellate ganglion. Discuss indications, techniques and implications of Stellate ganglion block.
- 3. Describe coronary circulation. Discuss factors affecting oxygen demand and supply to the myocardium.
- 4. What are the major causes of hypoxaemia? What is hypoxic pulmonary vasoconstriction? How can general anesthesia worsen V/Q mismatch.
- 5. Classify vaporizers. Discuss the effect of altered barometric pressure on the performance of vaporizers?
- 6. What do you understand by "Randomization" and "Blinding" in a clinical study? What is the importance of "p-value" and "power of the study"?
- 7. What is Minimal Alveolar Concentration (MAC)? Discuss the factors which effect the alveolar concentration of an inhalational agent.
- Classify antihypertensive drugs. Describe the management of a 8. hypertensive episode during anesthesia?
- 9. Describe the cardiac conduction system. How do you manage a patient with paroxysmal supra ventricular tachycardia?
- 10. Describe the anesthesia machine check protocol prior to induction of anesthesia.

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