

Write short notes on:

1. Discuss pathophysiology and management of shivering following anesthesia.
2. Enumerate the guidelines for regional anesthesia in a patient on antiplatelet therapy.
3. Discuss the distribution of ventilation and perfusion in a normal lung with the help of a labeled diagram. What are the factors affecting ventilation perfusion ratio?
4. Describe pre-operative evaluation and preparation of a 30 year old patient with portal hypertension scheduled for LR shunt.
5. How is cerebral blood flow regulated? What is the effect of various anesthetic drugs in cerebral blood flow?
6. Discuss the role of evidence based medicine in anesthesia practice. Quote few examples.
7. Enumerate the predictors of weaning from mechanical ventilation.
8. Describe pre-operative evaluation and anesthetic management of one day old child scheduled for repair of congenital diaphragmatic hernia.
9. What are the indications of caudal epidural anesthesia in pediatric patients undergoing surgery? Describe the technique and enumerate its complications.
10. Percutaneous dilatational tracheostomy: indications, techniques and complications.

Write short notes on:

1. Discuss the management of intracranial hypertension.
2. What are the common nosocomial infections in ICU? Discuss the measures for prevention of ventilator associated pneumonias.
3. Describe the in-hospital management of organophosphorous poisoning.
4. A 65 year old patient, chronic cigarette smoker is admitted to Emergency department with acute respiratory distress, and altered sensorium. His ABG reveals PaO₂ 50 mmHg, PaCO₂ 85 mmHg. pH-7.10. Discuss your plan of management.
5. Discuss the manifestations and management of thyroid storm.
6. Enumerate the role of analgesics and sedation in patients on ventilator therapy in the ICU.
7. Hypoxic pulmonary vasoconstriction.
8. What is disseminated intravascular coagulation? Enumerate its causes and management.
9. Discuss the patho-physiology of hepatorenal syndrome. What are the measures to prevent it?
10. Describe the techniques of chest physiotherapy? What is its role in the post surgical period?

Write short notes on:

1. Discuss the pathophysiology, signs and symptoms and management of venous air embolism.
2. What are the indications of the lung ventilation? What are the methods of lung separation? Discuss the problems involved?
3. Chronic smoking and the anesthesiologist.
4. Define hyperkalemia. Discuss signs and symptoms and anesthetic consideration.
5. Discuss the perioperative evaluation and management of a 30 year old primi admitted at 36 wks of pregnancy with eclampsia presenting for emergency LSCS.
6. Enumerate the risk factors for postoperative nausea and vomiting. Discuss measures to prevent and its management.
7. What is massive blood transfusion? What are the complications of massive blood transfusion?
8. Assessment and resuscitation of a patient with severe burns.
9. Discuss the problems and their anesthetic implications of a 40 year old morbidly obese patient scheduled for gastric banding.
10. Discuss anesthetic management of 70 years old hypertensive with CAD scheduled for TURP.

Write short notes on:

1. Describe the anatomy of celiac plexus. Discuss the indications and methods to block celiac plexus.
2. Safety features in a modern day anesthesia machine.
3. Classify inotropes on the basis of their mechanism of actions. Compare dopamine and dobutamine.
4. Describe the anatomy of larynx. How would you anaesthetize the airway for awake intubation.
5. Define minimum alveolar concentration. What are the factors affecting MAC. What is its significance in anesthesia?
6. What is venturi principle? What are its applications in anesthesia?
7. Describe physiological changes associated with pneumoperitoneum for laparoscopic cholecystectomy.
8. Describe with diagram the flow volume loops in :
 - (a) Healthy adult
 - (b) Patient with restrictive lung disease
 - (c) Patient with obstructive lung disease.
9. What are the factors affecting neuro-muscular blockage? Discuss various methods to monitor neuromuscular blockage.
10. What is monitored anesthesia care? Discuss the discharge criteria for a patient after day care surgery.

Write short Notes on:

1. A 2 year old child is scheduled for removal of organic foreign body in the right bronchus. What is the anesthetic management?
2. Enumerate the guidelines for regional anaesthesia in a patient on anticoagulant therapy.
3. A 20 year old is scheduled for release of T.M. Joint ankylosis. Discuss the various methods to secure the airway.
4. Discuss the causes of delayed recovery following general anaesthesia.
5. What are the anaesthetic implications in a patient with a transplanted kidney posted for incidental elective surgery?
6. Define monitored anaesthesia care. Discuss its goals and technique.
7. Discuss the pathophysiology and management of a case of carbon monoxide poisoning.
8. A 50 year old woman with hypothyroidism is scheduled for abdominal hysterectomy. Discuss the anaesthetic management.
9. Enumerate the perioperative problems & anaesthetic management of a 28 year old patient with mitral stenosis for elective cesarean section.
10. Discuss the preoperative evaluation and anaesthetic considerations in a patient with Parkinson's disease.

Write short Notes on:

1. Enumerate the environmental hazards in the operation theatre & discuss the measures for its prevention.
2. What is thromboelastography? Draw a labeled diagram to show a normal tracing. What are its implications?
3. Perioperative problems and the anaesthetic management of a one day old child with diaphragmatic hernia.
4. Discuss the diagnosis and management of perioperative myocardial infarction in a patient undergoing non-cardiac surgery.
5. Enumerate the perioperative problems and anaesthetic management in an 80 year old patient scheduled for total hip replacement.
6. CVP monitoring and its implications.
7. Enumerate the risk factors for post-operative nausea/vomiting (PONV). Discuss its management.
8. What is ARDS? Discuss the ventilatory strategies in a patient of ARDS.
9. What are the perioperative problems in a patient with morbid obesity?
10. Write in brief the criteria for determination of brain death and clinical tests for confirmation.

Write short Notes on:

1. Enumerate the effects of chronic smoking and the anaesthetic implications.
2. What are the recent guidelines for neonatal resuscitation?
3. Discuss the complications and sequelae of blood transfusions.
4. Enteral feeding in the critically ill patients.
5. Enumerate the physiological changes during pregnancy and their clinical implications.
6. Anaesthetic concerns for MRI
7. Compare & Contrast:
 - a. Starch & Gelatin as I.V. Fluid
 - b. Sevoflurane & Isoflurane
8. Compare & Contrast:
 - a. PEEP & CPAP
 - b. TOF & Double Burst.
9. Enumerate the Five H's and Five T's as possible causes of cardiac arrest. What is the management of pulseless electrical activity in an unconscious patient?
10. Discuss the ECG abnormalities due to various electrolyte imbalances.

Write short Notes on:

1. Resuscitation of term pregnant patient.
2. Classify vaporizers. Briefly mention the effects of altered barometric pressure on the performance of the vaporizers
3. Describe with the help of a labeled diagram, the anatomy of lumbar plexus and describe the techniques of lumbar plexus block.
4. Evidence based medical education
5. Nitrous oxide : current status
6. Adverse effects of neuromuscular blocking agents.
7. Percutaneous dilatational tracheotomy
8. Clinical tests for evaluation of autonomic nervous system
9. Planning of post anesthesia care unit
10. What are the problems related to chronic haemodialysis?

Write short Notes on:

1. Write the blood conservative strategies in a 20 years old female scheduled for excision of Angiofibroma of Nose
2. Write clinical features, diagnosis and management of a case of paracetamol poisoning.
3. A 30 years old woman is scheduled for removal of carcinoid tumor. Write the anesthetic management.
4. Transoesophageal echocardiography in Anesthesia.
5. Discuss pathophysiology and management of shivering in post-anesthesia case unit.
6. What principle is used in ultrasound? How is ultrasound useful in Anesthesia?
7. Write anesthetic management of a 3 years old child scheduled for patent ductus arteriosus (PDA) ligation.
8. What are indications of caudal epidural in pediatrics patients undergoing surgery? Describe the techniques and write its complications.
9. Write preoperative evaluation and preparation of a patient with portal hypertension scheduled for L-R shunt.
10. What are the indications of mediastinoscopy? Write anesthetic implications of mediastinoscopy?

Write short Notes on:

1. A 50 years old man with COPD is on Ventilator in ICU. Plan his enteral feeding & discuss its advantages & disadvantages.
2. Pre-emptive Analgesia: current status.
3. Manifestations and management of thyroid storm.
4. Criteria for weaning from prolonged ventilation.
5. Pre-operative evaluation and anesthetic management of one day old child with congenital diaphragmatic hernia.
6. Anesthetic management of patient with severe pre-eclampsia for caesarean section.
7. Lipid – emulsion for the treatment of local anesthetic toxicity-mechanism and dosage
8. Clonidine in Anesthesia and intensive care unit
9. Pre operative evaluation and anesthetic considerations of a patient with Parkinson's disease.
10. Guidelines for management of anesthesia in a patient with coronary stent

Write short Notes on:

1. Enumerate the symptoms of shock and discuss the methods used for assessment of systemic perfusion.
2. How will you diagnose deep vein thrombosis? Write the methods of prophylaxis and management.
3. Management of acute anaphylaxis.
4. Transdermal administration of drugs.
5. Permissive hypercapnia.
6. Pre operative evaluation and preparation of 35 years old asthmatic female scheduled for laparoscopic cholecystectomy
7. Dexmedetomidine : clinical applications and complications
8. Discuss the regulation of cerebral blood flow.
9. Meth-haemoglobinemia and anaesthesiologist
10. I – GEL Airway