

S.S. INSTITUTE OF MEDICAL SCIENCE AND RESEARCH CENTRE, Davangere – 577005

DEPARTMENT OF ANAESTHESIOLOGY

Post-Graduate Internal Examination –FEBRUARY. 2018

[Time: 3 Hours]

[Max. Marks: 100]

ANAESTHESIOLOGY (M.D)

PAPER – 2

(10 marks each)

- 1) Define minimum alveolar concentration of inhaled anaesthetic agents.
Enumerate physiological & pharmacological factors affecting MAC.
- 2) Enumerate the gas laws and their application in Anaesthesia.
- 3) Local Anaesthetic toxicity and Management.
- 4) Classify Mapleson circuits ? Explain Bains Circuit in Detail.
- 5) Describe phase II Block.? enumerate differences Between Phase I&II Block?
- 6) Capnography → Types,& Uses in Anaesthesia
- 7) Safety Features in Anaesthesia Machine.
- 8) Propofol
- 9) Central Venous Monitoring → Describe CVP waveform & Uses in Anaesthesia
- 10) LMA Indications & Complications?

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ANAESTHESIOLOGY (M.D)

PAPER – 4

(10 marks each)

- 1) Discuss in detail the etiology, Pathophysiology, Diagnosis and treatment of fat embolism syndrome.
- 2) Write and illustrate blood supply of brain. What is cerebral perfusion pressure[CPP] ? What are the factors affecting CPP?
- 3) Discussion the anaesthetic management of a patient with uncontrolled diabetes on OHA'S posted for emergency laparotomy.
- 4) What are the indications of caudal epidural anaesthesia in pediatric patients undergoing surgery? Describe the Technique & enumerate its complications
- 5) A 35 years old lady with huge thyroid mass presenting with thyrotoxicosis is posted for subtotal thyroidectomy. Discuss the pre operative preparation & anesthetic management.
- 6) Enumerate the age related changes in CVS, RS, CNS & Renal systems in geriatric patients which can affect anaesthetic management. How do the changes in renal functions affect anaesthetic management.
- 7) What is cerebral protection? Explain the methods adopted in clinical practice for cerebral protection. Discuss the peri-operative management of cerebral AVM.
- 8) Discuss the problems of neonatal anaesthesia. Describe the management of a case of congenital Diaphragmatic hernia of 24 hr old neonate.
- 9) Pre-operative evaluation of a case with CRF posted for renal transplantation.
- 10) Enumerate the problems with acute exposure to high altitude. Discuss briefly the anesthetic considerations at high altitude.

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DEPARTMENT OF ANAESTHESIOLOGY

Post-Graduate Internal Examination – February - 2018

[Time: 3 Hours]

[Max. Marks: 100]

ANAESTHESIOLOGY (M.D)

PAPER – 6

(10 marks each)

- 1) **PULMONARY EMBOLISM** –RISK FACTORS, CLINICAL FEATURES, DIAGNOSIS AND MANAGEMENT. **(2+2+3+3)**

- 2) **ACUTE PHYSIOLOGY, AGE, CHRONIC HEALTH EVALUATION(APACHE II) SCORING IN ICU.**
 - **EARLY GOAL DIRECTED THERAPY IN SEPSIS** **(5+5)**

- 3) **NUTRITIONAL SUPPORT FOR A CRITICAL ILL PATIENT**
 - **ICU PATIENT ON VENTILATOR > 24hrs:**
PREDICTORS FOR SUCCESSFUL WEANING FROM VENTILATOR
RECENT GUIDELINES FOR WEANING. **(5+3+2)**

- 4) **SUBARACHANOID HAEMORRHAGE**
 - PERIOPERATIVE MANAGEMENT

 - NEUROENDOCRINAL DYSFUNCTION AND ITS MANAGEMENT **(5+5)**

- 5) **ARDS – DIAGNOSTIC CRITERIA**
 - VENTILATORY PROTOCOL
 - NON VENTILATORY MANAGEMENT

 - **ECMO – TYPES**
 - INDICATIONS / CONTRAINDICATIONS
 - WEANING CRITERIA **(5+5)**

6) **CHRONIC PAIN**

- DEFINITION AS PER INTERNATIONAL ASSOCIATION FOR STUDY OF PAIN(IASP)

INTERDISCIPLINARY MANAGEMENT

-PERIOPERATIVE MANAGEMENT OF PATIENT WITH CHRONIC PAIN **(2+4+4)**

7) **CYANIDE POISONING** –CAUSES, PATHOPHYSIOLOGY, SIGNS AND SYMPTOMS, AND MANAGEMENT . **(2+2+2+4)**

8) **TACHYARRHYHMIA WITH PULSE** -2015 AHA ALGORITHM

TARGETED TEMPERATURE MANAGEMENT FOR POST CARDIAC ARREST PATIENT WITH RETURN OF SPONTANEOUS CIRCULATION **(6+4)**

9) **ULTRASONOGRAPHY IN CRITICAL CARE** **(10)**

10) **BRAIN DEATH**

- CLINICAL/ ANCILLARY TESTS

-ANAESTHETIC MANAGEMENT FOR A **LIVING LIVER DONOR** **(6+4)**

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DEPARTMENT OF ANAESTHESIOLOGY

Post-Graduate Internal Examination – AUGUST 2018

[Time: 3 Hours]

[Max. Marks: 100]

ANAESTHESIOLOGY (M.D)

10X10=100 marks

PAPER – 5

Your answer should be specific to the questions asked. Draw neat labeled diagram wherever necessary. Answer all questions.

- 1) Preoperative assessment of cardiac patient posted for non cardiac surgery.
- 2) Transesophageal echocardiography.
- 3) Discuss anaesthetic management of patient with liver disease.
- 4) 60yr male, hypertensive patient posted for laparoscopic cholecystectomy.
Discuss the pre-operative evaluation and anaesthetic management.
- 5) Write in detail about perioperative anaesthetic management of a patient posted for renal transplantation.
- 6) Pathophysiology of obesity and its anaesthetic implication.
- 7) High altitude and anaesthesia
- 8) Pre op evaluation and anaesthetic management of patient with myasthenia gravis.
- 9) Anaesthesia for off pump CABG.
- 10) Hepato renal syndrome.

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ANAESTHESIOLOGY (M.D)

10X10=100 marks

PAPER – 3

Your answer should be specific to the questions asked. Draw neat labeled diagram wherever necessary. Answer all questions.

- 1) Discuss physiology of one lung ventilation. Explain in detail about double lumen tube. (5+5)
- 2) Define & classify gestational hypertension. (2+2)
Discuss the anesthetic management of case of pre-eclampsia posted for emergency LSCS. (6)
- 3) Physiological changes in pregnancy and its relevance and anesthetic implications. (5+5)
- 4) Discuss the anesthetic management of a 10 Yr old boy with post tonsillectomy bleeding.
- 5) Discharge criteria following day care surgery.
- 6) Anesthetic management of a 5 yr old boy posted for squint surgery.
- 7) Anesthesia for Electro convulsive therapy.
- 8) Massive blood transfusion.
- 9) Prothrombin time activated partial thromboplastin time, International normalized ratio. (3+4+3)
- 10) Post extubation laryngospasm.
