

ANAESTHESIOLOGY

PAPER – I

ANS/J/13/01/I

Time : 3 hours

Max. Marks : 100

IMPORTANT INSTRUCTIONS

- This question paper consists of 10 questions divided into Part 'A' and Part 'B', each part containing 5 questions.
- Answers to questions of Part 'A' and Part 'B' are to be strictly attempted in separate answer sheet(s) and the main + supplementary answer sheet(s) used for each part must be tagged separately.
- Answers to questions of Part 'A' attempted in answer sheet(s) of Part 'B' or vice versa shall not be evaluated.
- Answer sheet(s) of Part 'A' and Part 'B' are not to be tagged together.
- Part 'A' and Part 'B' should be mentioned only on the covering page of the respective answer sheet(s).
- Attempt all questions in order.
- Each question carries 10 marks.

PART A

1. Describe the preoperative evaluation and anesthetic management of a one month old child with biliary atresia scheduled for laparotomy and repair. 3+7
2. What are the causes, signs and symptoms of TURP syndrome? How will you manage? 3+7
3. A 20 year old female with mass in posterior fossa is scheduled for craniotomy. Describe the preoperative preparation and anesthetic management. 2+8
4. Define pregnancy induced hypertension. Describe pathophysiology and anesthetic management in a 30 year old female with 36 weeks pregnancy scheduled for elective LSCS. 1+3+6
5. How will you evaluate a 65 year old chronic smoker with carcinoma of larynx scheduled for laryngectomy? Discuss the anesthetic management. 4+6

P.T.O

ANAESTHESIOLOGY

PAPER – I

Please read carefully the important instructions mentioned on Page '1'

PART B

6. A 40 year old female with history of bronchial asthma is scheduled for laparoscopic cholecystectomy. Describe preoperative preparation and anesthetic management. 4+6
7. Describe preoperative assessment and anesthetic management of a brain dead patient scheduled for organ harvesting. 5+5
8. Enumerate the general principles of anesthesia outside the operating room. Briefly outline the anesthetic plan for 2-3 year old patient scheduled for oocyte retrieval in IVF suite. 5+5
23
9. What are the causes and manifestations of congenital cyanotic heart disease? Briefly discuss the principles of anesthetic management in a case of Tetralogy of Fallot. 2+3+5
10. Discuss preoperative evaluation of a patient with obstructive sleep apnoea scheduled for laparotomy. Briefly outline preoperative preparation and anesthetic management. 2+3+5

AESTHESIOLOGY

PAPER – II

ANS /J/13/01/II

Time : 3 hours

Max. Marks : 100

IMPORTANT INSTRUCTIONS

- This question paper consists of 10 questions divided into Part 'A' and Part 'B', each part containing 5 questions.
- Answers to questions of Part 'A' and Part 'B' are to be strictly attempted in separate answer sheet(s) and the main + supplementary answer sheet(s) used for each part must be tagged separately.
- Answers to questions of Part 'A' attempted in answer sheet(s) of Part 'B' or vice versa shall not be evaluated.
- Answer sheet(s) of Part 'A' and Part 'B' are not be tagged together.
- Part 'A' and Part 'B' should be mentioned only on the covering page of the respective answer sheet(s).
- Attempt all questions in order.
- Each question carries 10 marks.

PART A

1. Describe the preoperative evaluation and anesthetic management of a 20 years old male scheduled for cerebral AV malformation surgery. 3+7
2. Define post dural puncture headache. Describe its clinical features and management. 2+(3+5)
3. Discuss the role of laryngeal mask airway in ASA difficult airway algorithm. 10
4. What are the causes and clinical features of hyponatremia in the post operative period? Describe its management. (3+3)+4
5. Describe the role of trans oesophageal echocardiography (TEE) in haemodynamic monitoring of a patient with coronary artery disease scheduled for surgery under general anesthesia. 10

ANAESTHESIOLOGY

PAPER – II

Please read carefully the important instructions mentioned on Page '1'

PART B

6. Describe the preoperative preparation and anesthetic management in an 80 year old patient scheduled for total knee replacement. 3+7
7. A 10 year old child is scheduled for adenotonsillectomy. Describe the preoperative assessment and anesthetic management including management of pain. 3+(5+2)
8. What are the indications for one lung ventilation? Describe the management of hypoxaemia during one lung ventilation. 3+7
9. Define massive blood transfusion. Describe the complications of massive blood transfusion and their management. 2+(4+4)
10. Define Minimum Alveolar Concentration (MAC) of an inhalational anesthetics. Describe briefly the methods used to measure "Depth of Anesthesia". 3+7

ANAESTHESIOLOGY

PAPER – III

ANS /J/13/01/III

Time : 3 hours
Max. Marks : 100

IMPORTANT INSTRUCTIONS

- This question paper consists of 10 questions divided into Part 'A' and Part 'B', each part containing 5 questions.
- Answers to questions of Part 'A' and Part 'B' are to be strictly attempted in separate answer sheet(s) and the main + supplementary answer sheet(s) used for each part must be tagged separately.
- Answers to questions of Part 'A' attempted in answer sheet(s) of Part 'B' or vice versa shall not be evaluated.
- Answer sheet(s) of Part 'A' and Part 'B' are not to be tagged together.
- Part 'A' and Part 'B' should be mentioned only on the covering page of the respective answer sheet(s).
- Attempt all questions in order.
- Each question carries 10 marks.

PART A

1. What are the diagnostic criteria for ARDS? Describe the ventilator strategies for management of ARDS. 4+6
2. Define Complex Regional Pain Syndrome. Describe the technique and complications of stellate ganglion block. 2+(5+3)
3. Describe the preoperative evaluation of a patient with diabetes mellitus scheduled for surgery. Briefly describe the methods of maintaining intraoperative blood sugar levels in a diabetic patient scheduled for major abdominal surgery. 4+6
4. What are the complications of nutritional support in ICU? What are the special considerations in a patient with renal dysfunction? 6+4
5. Describe the guidelines for central neuraxial blockage in a patient on anticoagulant therapy. 10

P.T.O

ANAESTHESIOLOGY

PAPER – III

Please read carefully the important instructions mentioned on Page '1'

PART B

- | | | |
|-----|---|---------|
| 6. | What are the clinical features of deep vein thrombosis? Describe the prophylactic and management strategies. | 3+(3+4) |
| 7. | Enumerate the different types of arrhythmias encountered in the intraoperative period. Discuss its causes and management? | 3+(4+3) |
| 8. | Mention briefly the organization of Anesthesia and Resuscitative Services for disaster management. | 10 |
| 9. | Classify cardiomyopathy. Briefly describe the anesthetic management of a patient with hypertrophic cardiomyopathy scheduled for total abdominal hysterectomy. | 2+8 |
| 10. | What are the clinical manifestations of poisoning? Describe its management | 4+6 |

ANAESTHESIOLOGY

PAPER – IV

ANS /J/13/01/IV

Time : 3 hours

Max. Marks : 100

IMPORTANT INSTRUCTIONS

- This question paper consists of 10 questions divided into Part 'A' and Part 'B', each part containing 5 questions.
- Answers to questions of Part 'A' and Part 'B' are to be strictly attempted in separate answer sheet(s) and the main + supplementary answer sheet(s) used for each part must be tagged separately.
- Answers to questions of Part 'A' attempted in answer sheet(s) of Part 'B' or vice versa shall not be evaluated.
- Answer sheet(s) of Part 'A' and Part 'B' are not to be tagged together.
- Part 'A' and Part 'B' should be mentioned only on the covering page of the respective answer sheet(s).
- Attempt all questions in order.
- Each question carries 10 marks.

PART A

1. Define and classify shock. Describe briefly the guidelines for the management of cardiogenic shock. 2+8
2. What are the functions of liver? Describe the anesthetic implications of ascites and its management. 2+(4+4)
3. Enumerate the safety features in modern anesthesia machines. Describe the features to prevent delivery of hypoxic gas mixture. 5+5
4. Enumerate the methods available for pain relief in patients with carcinoma pancreas. Describe celiac plexus block with the help of a diagram. 3+(3+4)
5. Briefly describe thermoregulation in the human body. Discuss the impact of perioperative hypothermia. 5+5

P.T.O

ANAESTHESIOLOGY

PAPER – IV

Please read carefully the important instructions mentioned on Page '1'

PART B

- | | | |
|-----|--|---------|
| 6. | What is the American Society of Anesthesiologists physical status classification? Briefly describe other factors that may alter risk associated with anesthesia. | 5+5 |
| 7. | Describe oxygen hemoglobin dissociation curve. How does it differ from the carbon dioxide dissociation curve? What is haldane effect? | 4+4+2 |
| 8. | Describe the nerve supply of nasal cavity and larynx. How would you block these nerves for awake nasal intubation? | (2+3)+5 |
| 9. | Classify local anesthetics. Discuss their mode of action. How will you treat lidocaine toxicity? | 3+3+4 |
| 10. | Draw and label a diagram showing various lung volumes and capacities. Discuss the importance of FRC in anesthetic practice. | 4+6 |
