

MANIPAL UNIVERSITY

DIPLOMA IN ANAESTHESIOLOGY (DA) EXAMINATION – APRIL 2010

SUBJECT: PAPER II: CLINICAL ANAESTHESIOLOGY

Tuesday, April 06, 2010

Time: 14:00 – 17:00 Hrs.

Max. Marks: 100

✍ **Be brief in your answers; padding your answers will not get you any extra credit.**✍ **Illustrate your answer with clearly labeled diagrams where appropriate.**

1. A 25 year primigravida with mitral stenosis (valve area 1.5 cm^2) has been admitted at 36 weeks gestation for safe confinement. Describe the preoperative evaluation and preparation, and anaesthetic management of this patient scheduled to undergo elective caesarean section.
(4+6 = 10 marks)
2. Briefly describe the methods used and the information obtained from the bedside tests for assessing pulmonary function.
(10 marks)
3. A 30 year old lady is posted for a posterior fossa surgery in the sitting position. What are the anticipated problems of the sitting position? Enumerate the differential diagnosis of low end-tidal carbon dioxide concentration obtained on the capnogram during the intraoperative period and discuss the management of each of these conditions.
(4+6 = 10 marks)
4. What are the pitfalls and shortcomings of the conventional epidural test dose in obstetrics? Describe alternate tests that have been described for confirming correct placement of epidural catheter in a pregnant lady.
(5+5 = 10 marks)
5. Discuss preoperative evaluation, preparation and intraoperative anaesthetic management of a 1 day old neonate scheduled for repair of tracheoesophageal fistula. Enumerate the preoperative factors that indicate a possible poor outcome.
(7+3 = 10 marks)
6. Describe the perioperative management of a 7 year old child scheduled to undergo corrective surgery for convergent squint.
(10 marks)
7. What is the aetiology of the *TUR syndrome*? How would you recognise and manage this complication?
(3+7 = 10 marks)
8. Describe the tests used to evaluate autonomic dysfunction. What are the anaesthetic implications of autonomic neuropathy?
(6+4 = 10 marks)
9. Describe how you would provide topical anaesthesia of the airway prior to awake intubation. Describe the technique of retrograde intubation.
(5+5 = 10 marks)
10. Discuss the occupational hazards that we encounter as anaesthesiologists.
(10 marks)



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DIPLOMA IN ANAESTHESIOLOGY (DA) EXAMINATION – APRIL 2010

SUBJECT: PAPER III: REANIMATOLOGY, CRITICAL CARE MEDICINE, MANAGEMENT OF CHRONIC PAIN STATES & ALLIED DISCIPLINES OF ANAESTHESIOLOGY

Wednesday, April 07, 2010

Time: 14:00 – 17:00 Hrs.

Max. Marks: 100

- ✍ **Be brief in your answers; padding your answers will not get you any extra credit.**
 ✍ **Illustrate your answer with clearly labeled diagrams where appropriate.**

1. A 40 year-old gentleman collapses suddenly at a public gathering and becomes unresponsive. Outline how you would respond to this situation and describe your line of action?
(10 marks)
2. Write briefly about the working principle of an Automated External Defibrillator (AED). Add a note on the clinical use of an AED in a patient with cardiac arrest. Enumerate the precautions to be observed while using AED. Add a note on special considerations in infants and children regarding the use of AED.
(3+3+2+2 = 10 marks)
3. Enumerate the components and subcomponents that comprise initial assessment of a victim of trauma. Describe the assessment of airway, breathing and circulation in your initial survey.
(3+7 = 10 marks)
4. A middle aged lady presents to the emergency room with polytrauma and haemorrhagic shock. Describe the steps you would take to minimise blood loss and to treat the haemorrhagic shock. Add a note on blood transfusion guidelines for a patient with haemorrhagic shock whose blood grouping and cross-matching has not been done.
(3+5+2 = 10 marks)
5. Describe the aetiopathogenesis of ventilator associated pneumonia. Discuss the measures that are recommended to prevent the same.
(4+6 = 10 marks)
6. Describe T-piece trial, including the indications and advantages of the technique in weaning a ventilator-dependent patient. Add a note on factors contributing to ventilator dependence during mechanical ventilation.
(6+4 = 10 marks)
7. Enumerate the different techniques available for postoperative pain relief in a 2 year-old child scheduled to undergo herniotomy. Describe the technique of caudal epidural block and mention the drugs that you would use along with their doses.
(3+7 = 10 marks)
8. Enumerate the different modalities of non-pharmacological pain relief available for labor analgesia. Describe the technique of combined spinal-epidural technique for providing labor analgesia.
(3+7 = 10 marks)
9. Discuss the role of interpleural analgesia in the management of chronic thoracic pain. Describe (with diagrams) the technique of performing this block. List the complications of this block.
(3+5+2 = 10 marks)
10. Differentiate between phantom limb pain and stump pain. Discuss the different treatment options available for phantom limb pain.
(5 + 5 = 10 marks)

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