

POSTGRADUATE INSTITUTE OF MEDICINE
UNIVERSITY OF COLOMBO

MD (ANAESTHESIOLOGY) PART I A EXAMINATION – NOVEMBER, 2018

ESSAY PAPER

Answer six (06) questions only.

Each question should be answered in a separate book.

Date: 19th November 2018

Time: 1.00 p.m. – 4.00 p.m.

1.
 - 1.1. List the properties of an ideal breathing system. (30 marks)
 - 1.2. Draw and label the circle system (30 marks)
 - 1.3. List the advantages and limitations of using a circle system for an anaesthetised spontaneously breathing patient. (40 marks)

2. Outline indications, dosage and side effects of the following medications
 - 2.1. Magnesium sulphate (40 marks)
 - 2.2. Fentanyl (30 marks)
 - 2.3. Propofol (30 marks)

3. A 28 year old primi-gravida is found to have a blood pressure of 70/40mmHg and a heart rate of 130 /min one hour after a normal vaginal delivery. On examination she is conscious but drowsy.
 - 3.1. List the possible causes for her hypotension and tachycardia. (30 marks)
 - 3.2. Outline your immediate management. (40 marks)
 - 3.3. Obstetrician has planned an emergency laparotomy. How would you anaesthetise this patient? (30 marks)

4. A 5 year old child is to undergo an inguinal herniotomy in the routine surgical list. Preoperative assessment has already been done.
- 4.1. How would you prepare the theatre to anaesthetise this child? (40 marks)
 - 4.2. Describe how you would perform a caudal block. (40 marks)
 - 4.3. List the possible complications of caudal anaesthesia. (20 marks)
5. A 35 year old man was brought to the accident & emergency department following a road traffic accident with isolated chest injury. He was noted to have a pulse oximeter saturation of 84% on room air.
- 5.1. List the possible causes for low oxygen saturation of this patient? (40 marks)
 - 5.2. What is your immediate management of this patient? (60 marks)
6. You are called to see a 36 year old ASA 1 patient who complains of vomiting following a laparoscopic ovarian cystectomy.
- 6.1. List the possible risk factors for post operative vomiting in this patient? (30 marks)
 - 6.2. Outline pre and intra operative measures that could have been taken to minimize post operative nausea and vomiting. (50 marks)
 - 6.3. List the other surgeries associated with a high incidence of post operative nausea and vomiting. (20 marks)

7. A 35 years old female patient was given a general anaesthetic for a laparoscopic appendicectomy. Intra-operatively her blood pressure was found to be 80/45 mmHg.
- 7.1. List the possible causes for the fall in blood pressure in this patient. (40 marks)
- 7.2. Outline the management of this clinical situation. (60 marks)
8. 60 year old, previously healthy lady with papillary carcinoma of the thyroid underwent a total thyroidectomy. In the recovery area, patient developed stridor.
- 8.1. List the causes of stridor in this patient. (30 marks)
- 8.2. What is your immediate assessment and management of this patient? (70 marks)