

POSTGRADUATE INSTITUTE OF MEDICINE
UNIVERSITY OF COLOMBO

MD (ANAESTHESIOLOGY) PART 1A EXAMINATION – MAY 2018

Date : 14th May 2018

Time : 1.00 p.m. – 4.00 p.m.

ESSAY PAPER

Answer six (06) questions only.

Each question should be answered in a separate book.

1.
 - 1.1. List the minimum standards of monitoring during routine surgery under general anaesthesia (25 marks)
 - 1.2. What are the advantages and limitations of ECG monitoring during anaesthesia. (40 marks)
 - 1.3. What additional monitoring would you consider in a haemodynamically unstable patient. (35 marks)
2. A 32 year old previously healthy primi gravida was given spinal anaesthesia for elective LSCS. 10 minutes later she complained of difficulty in breathing.
 - 2.1. How would you assess whether this mother has a high spinal block? (40 marks)
 - 2.2. Outline the immediate management If you confirm a high spinal block. (40 marks)
 - 2.3. Why are pregnant mothers more prone to develop high spinal block (20 marks)
3. A 5 year old child weighing 20 Kg is scheduled for multiple dental extractions (more than 4 teeth)
 - 3.1. What are the specific pre-operative concerns in this patient? (40 marks)
 - 3.2. Outline the intraoperative management of this child. (40 marks)
 - 3.3. List the post-operative problems you would anticipate. (20 marks)

4. Write the indications, doses and side effects of the following;
 - 4.1. Midazolam (40 marks)
 - 4.2. Ergometrine (30 marks)
 - 4.3. Tranexamic acid (30 marks)

5. A 30 year old male patient is brought to the accident & emergency with a crush injury to both lower limbs following collapse of a building. He is conscious and rational, his BP 120/70 mmHg, heart rate 120/minute.
 - 5.1. What are the immediate life-threatening injuries that you would exclude during the primary survey in this patient. (30 marks)
 - 5.2. Surgical team has planned an urgent B/L above knee amputation. in the absence of other injuries what problems you would anticipate and how would you optimize this patient prior to anaesthesia. (70 marks)

6. A 70 year old ASA 1 patient is brought to recovery area following hemicolectomy under general anaesthesia with an epidural. His blood pressure dropped to 65/40 mmHg while in the recovery area.
 - 6.1. List the possible causes. (30 marks)
 - 6.2. Outline the immediate management of this patient. (70 marks)

7. A 65 year old hypertensive patient on losartan 50 mg twice a day and hydrochlorothiazide (HCT) 25 mg mane is scheduled for total abdominal hysterectomy (TAH) under general anaesthesia.
 - 7.1. What are the perioperative problems you may encounter in this patient? (50 marks)
 - 7.2. List the pre-operative Investigations you would request on this patient giving reasons. (50 marks)

8. A 50 year old ASA 1 patient has undergone an emergency laparotomy for bowel obstruction. You are called to see this patient in the ward, 2 hours after surgery as the patient complains of severe pain.
 - 8.1. How you would assess his severity of pain? (25 marks)
 - 8.2. List the methods of pain relief available for this patient. (25 marks)
 - 8.3. What are the advantages of adequate pain relief in this patient? (50 marks)