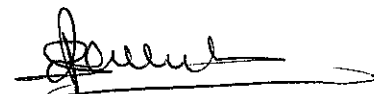


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POSTGRADUATE INSTITUTE OF MEDICINE
UNIVERSITY OF COLOMBO

MD (ANAESTHESIOLOGY) PART I A EXAMINATION
DECEMBER 2020

Date:- 30th December 2020

Time:- 9.30 a.m. – 12.30 p.m.

ESSAY PAPER

Answer six (06) questions only.

Each question should be answered in a separate book.

1.
 - 1.1. Draw and label the components of the circle breathing system. (25 marks)
 - 1.2. List the advantages and disadvantages of the circle breathing system. (35 marks)
 - 1.3. Describe how you would check the circle system before the start of a theatre session. (40 marks)
2. Write short notes on the following:
 - 2.1. Indications and disadvantages of ephedrine. (30 marks)
 - 2.2. Cardiovascular and respiratory effects of isoflurane. (40 marks)
 - 2.3. Clinical features of bupivacaine toxicity. (30 marks)
3.
 - 3.1. What are the indications for administering general anaesthesia for lower segment caesarean section (LSCS)? (30 marks)
 - 3.2. Outline your concerns when administering general anaesthesia to an obstetric mother. (40 marks)
 - 3.3. List the precautions you would take to overcome the concerns listed above. (30 marks)
4. A 35-year-old male (ASA 1) is admitted to the emergency department following blunt injury to the abdomen. He has no other injuries. He is pale and restless. The heart rate is 140 beats per minute, blood pressure is 80/60mmHg. The abdomen is distended and tender.
 - 4.1. List the possible abdominal injuries in this patient? (20 marks)
 - 4.2. What is your immediate management? (40 marks)
 - 4.3. In the recovery area, following laparotomy the patient has a pain score of 7/10.
What options are available to manage his pain? (40 marks)

5. A 6-year-old child presents with an offensive nasal discharge of five days duration. Mother gives a history of a possible foreign body in the nose.
- 5.1. List the preoperative concerns in this child. (30 marks)
 - 5.2. What is your intraoperative management? (40 marks)
 - 5.3. What are your postoperative instructions to the ward? (30 marks)
6. A 60-year-old patient with ischaemic heart disease is scheduled for a cataract surgery under general anaesthesia.
- 6.1. What is the normal intraocular pressure (IOP)? (10 marks)
 - 6.2. Outline your preoperative assessment of this patient. (40 marks)
 - 6.3. List the factors that affect IOP during surgery under general anaesthesia. (20 marks)
 - 6.4. What measures can you take to avoid increase in IOP during anaesthesia? (30 marks)
7. A 55-year-old patient with a BMI of 40 kg/m² is scheduled to undergo a laparoscopic repair of a para-umbilical hernia.
- 7.1. What are the preoperative concerns in this patient? (40 marks)
 - 7.2. How would you prepare the theatre for this patient prior to surgery? (35 marks)
 - 7.3. Patient develops sudden onset shortness of breath in the post anaesthesia care unit (PACU).
List five (05) possible causes. (25 marks)
8. A 72-year-old lady who underwent laparotomy for small bowel resection is found to have a delayed recovery in the immediate postoperative period.
- 8.1. List the possible causes for delayed recovery in this patient. (30 marks)
 - 8.2. What investigations would you do to arrive at a diagnosis? (30 marks)
 - 8.3. Outline your immediate management. (40 marks)