

POSTGRADUATE INSTITUTE OF MEDICINE
UNIVERSITY OF COLOMBO

MD (ANAESTHESIOLOGY) PART IA EXAMINATION – NOVEMBER 2017

Date:- 20th November 2017

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. Draw and label the circle breathing system. (20 marks)

1.2. Explain how the position of the following components would improve the function of the above system

1.2.1. Fresh Gas Flow (FGF) inlet. (20 marks)

1.2.2. Adjustable Pressure Limiting (APL) valve. (20 marks)

1.2.3. Reservoir bag. (20 marks)

1.3. List five (05) situations where hypercapnoea can occur during the use of the above system. (20 marks)

2. Write the indications, doses and side effects of:

2.1. Hydralazine (30 marks)

2.2. Neostigmine (30 marks)

2.3. Amiodarone (40 marks)

3. You have given a spinal anaesthetic to a 30 year old primigravida for an elective caesarean section.

3.1. How would you assess the adequacy of the block? (30 marks)

3.2. Outline your management if the patient complains of pain just after the skin incision. (70 marks)

Contd..../2-

4. A 6 year old 18 kg child is awaiting bronchoscopy for removal of a foreign body.
 - 4.1. List the perioperative problems you would anticipate in this child. (30 marks)
 - 4.2. Outline your anaesthetic management. (70 marks)

5.
 - 5.1. How would you assess the degree of blood loss in a polytrauma patient? (50 marks)
 - 5.2. Define massive blood transfusion. (20 marks)
 - 5.3. What are the important components of a massive blood transfusion protocol? (30 marks)

6. A 70 year old ex-smoker with chronic obstructive airways disease requires a transurethral resection of prostate (TURP).
 - 6.1. Outline pre-operative assessment and optimization of this patient. (40 marks)
 - 6.2. Outline the advantages of intrathecal block for this patient. (30 marks)
 - 6.3. During the TURP the patient becomes confused. List the possible causes? (30 marks)

7. A 48 year old morbidly obese patient (BMI =40) is scheduled for a total abdominal hysterectomy.
 - 7.1. List the perioperative problems you would anticipate. (40 marks)
 - 7.2. Outline the intra and post-operative management of this patient. (60 marks)

8. A 20 year old ASA 1 patient was given a general anaesthetic for a cervical lymph node biopsy. His airway was maintained with a laryngeal mask airway (LMA). During the procedure his oxygen saturation dropped to 85%.
 - 8.1. What are the possible causes for his desaturation? (30 marks)
 - 8.2. How would you manage this situation? (70 marks)