

POSTGRADUATE INSTITUTE OF MEDICINE
UNIVERSITY OF COLOMBO

CERTIFICATE OF COMPETENCE IN ANAESTHESIOLOGY EXAMINATION

JUNE 2015

Date : 1st June 2015

Time : 2.00 p.m. – 4.00p.m.

Answer all questions.

Each question must be answered in a separate book.

1..

1.1 Name the breathing systems which can be used for both spontaneous and positive pressure ventilation in paediatric anaesthetic practice. (15 marks)

1.2 List the advantages and limitations of two of these breathing systems. (55 marks)

1.3 Indicate the fresh gas flow rates you would use with these two systems. (30 marks)

2. A 30 year old previously healthy primi gravida is brought to the operating theatre for manual removal of a retained placenta. She is pale, tachycardic and hypotensive. Outline your anaesthetic management. (100 marks)

3. A 25 year old male is brought to the A & E with isolated crush injury to the chest with multiple rib fractures.

3.1 How would you diagnose a tension pneumothorax in this patient? (20 marks)

3.2 Outline the immediate management of the tension pneumothorax. (30 marks)

3.3 Briefly state your management of this patient in relation to his rib fractures. (30 marks)

3.4 List the other life threatening injuries which he could have sustained. (20 marks)

4. A 68 year old patient (body weight 60kg) with well controlled diabetes had undergone a gastrectomy for carcinoma of the stomach. He has a working epidural catheter which was used for analgesia during surgery. He is extubated and sent to the HDU.
- 4.1. Write the post operative instructions in detail for the first 24 hours (70 marks)
- 4.2. One hour after the admission to the HDU his blood pressure was found to be 80/50mmHg. Enumerate the likely causes. (30 marks)
- 5.
- 5.1 List two indications for each of the following drugs. (30 marks)
- a) Amiodarone
 - b) Magnesium sulphate
 - c) Morphine
- 5.2 How would you prescribe each drug for the conditions which you have mentioned. (70 marks)
6. A 45 year old female patient, with a body mass index of 38 kg/m^2 , is awaiting para umbilical hernia repair.
- 6.1 How do you define obesity? (20 marks)
- 6.2 Outline the anaesthetic problems giving reasons. (80 marks)
7. A 35 year old ASA I patient who underwent total thyroidectomy for a large multinodular goitre, becomes restless in the recovery area.
- 7.1 List the possible causes. (20 marks)
- 7.2 Describe the immediate management of this patient. (80 marks)
8. A 5 year old child (15kg) is awaiting squint surgery.
- 8.1 Outline your pre-operative assessment and preparation. (50 marks)
- 8.2 List the specific anaesthetic considerations with regard to this surgery and indicate how you would manage them. (50 marks)