

POSTGRADUATE INSTITUTE OF MEDICINE
UNIVERSITY OF COLOMBO

MD (ANAESTHESIOLOGY) PART IA EXAMINATION
NOVEMBER 2014

Date : 10th November 2014

Time : 1.00 p.m. - 4.00 p.m.

ESSAY PAPER

Answer six questions only.

Each question should be answered in a separate book.

1.
 - 1.1. List the minimum monitoring standards in anaesthetic practice. (40%)
 - 1.2. Enumerate the methods of monitoring the cardiovascular system during major surgery. Give reasons for each. (60%)

2. Write short notes on following drugs.
 - 2.1. Mg SO₄ (40%)
 - 2.2. Halothane (30%)
 - 2.3. Bupivacaine (30%)

3. A 6 year old, 18kg ASA1 boy presents to casualty ward with features of testicular torsion. He needs urgent surgical exploration.

Describe the anaesthetic management.

4. A 25 year old woman who is 30 weeks pregnant presents for an appendicectomy under general anaesthesia.
 - 4.1. List the problems you would anticipate in this patient. (30%)
 - 4.2. Briefly describe your anaesthetic management. (70%)

5. A 40 year old female patient is brought to Accident & Emergency Unit with injuries sustained following collapse of a wall.
- Her GCS is 15/15, respiratory rate 30/minute, oxygen saturation on air is 84% , pulse rate is 120/ minute, blood pressure is 80/50 mmHg.
- 5.1. List the life threatening injuries that you would expect in this patient. (50%)
- 5.2. Outline the initial management of this patient. (50%)
6. A 25 year old ASA1 patient is undergoing laparoscopic ovarian cystectomy. During surgery, her airway pressure increases to 35cm H₂O.
- 6.1. List the possible causes. (40%)
- 6.2. Briefly describe your management of this incident. (60%)
7. A 55 year old female patient with hypertension is awaiting a mastectomy. She is on atenolol and frusemide.
- 7.1. What are the pre-operative problems you would encounter in this patient ? (40%)
- 7.2. List the pre-operative investigations and the abnormalities you may see in them. (60%)
- 8.
- 8.1. What are the risk factors associated with post operative nausea and vomiting. (PONV) (50%)
- 8.2. Briefly describe the measures that you would take to minimize PONV. (50%)