

POSTGRADUATE INSTITUTE OF MEDICINE
UNIVERSITY OF COLOMBO

MD (ANESTHESIOLOGY) PART I A EXAMINATION – MAY 2016

Date :- 3rd may 2016

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 List the advantages and disadvantages of using the laryngeal mask airway over

a) Face mask (40%)

b) Endotracheal tube (40%)

1.2 How do you ensure the satisfactory placement of laryngeal mask airway (20%)

2. What are the advantages of

2.1 Bupivacaine over lignocaine (30%)

2.2 Sevoflurane over Halothane (30%)

2.3 Propofol over thiopentone (40%)

3. A 30 year old primigravida with a POA of 34 weeks is admitted to the obstetric unit with a generalized seizure. Her blood pressure is 180/110 mmHg and urine albumin 3+.

3.1 What is your diagnosis? (10%)

3.2 Outline your immediate management of the seizure and high blood pressure. (50%)

3.3 How do you prepare this patient for LSCS. (40%)

Contd.../2

4. A 5 year old boy weighing 20kg is scheduled for an inguinal herniotomy under general anaesthesia with a caudal block. The parents want to know details of the caudal block and the risks involved.

4.1 Explain what you would tell them in order to obtain consent for the caudal block. (40%)

4.2 What is the drug and dose you would use for the caudal block? (20%)

4.3 What precautions would you take to minimize complications of the caudal block? (40%)

5. A 25 year old man was admitted to the A&E with multiple stab injuries to his chest. He is conscious but restless. His SpO₂ is 85% on air, pulse rate is 130/min and the BP is 80/40 mmHg.

5.1 List the possible causes for his desaturation. (15%)

5.2 Briefly describe the possible reasons for his hypotension. (35%)

5.3 Outline the initial management of this patient. (50%)

6. A 30 year old healthy male who underwent an emergency open appendicectomy, was found to have a SpO₂ of 75% in the recovery area.

6.1 List the possible causes for his desaturation. (30%)

6.2 Outline your management of this emergency. (70%)

7. A 65 year old patient with a serum creatinine of 1.5mg/dl (normal <1.2mg/dl) requires a procedure with the use of intravenous contrast under general anaesthesia in the radiology department.

7.1 List four (4) problems you might encounter in the peri-procedure period. (20%)

7.2 Outline your pre-anaesthetic preparation. (80%)

8. A 60 year old female is awaiting total abdominal hysterectomy.

8.1 What are the advantages of adequate pain relief. (30%)

8.2 What methods of pain relief are available for this patient. (30%)

8.3 List the limitations of the above methods. (40%)