

**POSTGRADUATE INSTITUTE OF MEDICINE**  
**UNIVERSITY OF COLOMBO**

**MD (ANAESTHESIOLOGY) PART IA EXAMINATION –**  
**NOVEMBER 2015**

**Date :- 9<sup>th</sup> November 2015**

**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. Draw a labelled diagram of the Mapleson A (Magill's) breathing system. (40 marks)
  - 1.2. Indicate the fresh gas flows during its use. (10 marks)
  - 1.3. List the advantages and disadvantages of this breathing system. (50 marks)
2. Write short notes on
  - 2.1. Suxamethonium. (40 marks)
  - 2.2. Propofol. (40 marks)
  - 2.3. Ondansetron (20 marks)
3. A 4 year old child (15 kg) is scheduled for adenotonsillectomy.
  - 3.1. List the perioperative problems you would anticipate in this patient. (30 marks)
  - 3.2. Outline your perioperative management. (70 marks)
4.
  - 4.1. List the indications for general anaesthesia for Caesarean section. (20 marks)
  - 4.2. What are the risks associated with administering general anaesthesia for Caesarean sections? (30 marks)
  - 4.3. How would you prevent or minimise these risks? (50 marks)

Contd..../2-

5. A 25 year old previously healthy patient was brought to the A&E with 20% burns to the face and chest after being caught in a fire.
- 5.1. List the problems you would expect in this patient. (40 marks)
- 5.2. Outline the initial management of this patient. (60 marks)
6. A 40 year old patient undergoing abdominal hysterectomy under general anaesthesia develops a maculo-papular rash after induction of anaesthesia. Her oxygen saturation is 89%, blood pressure is 60/40 mmHg and the airway pressure is 40 cmH<sub>2</sub>O.
- 6.1. What is the most likely diagnosis? (20 marks)
- 6.2. Describe how you would manage this patient. (80 marks)
7. A 50 year old (60kg) ASA 1 patient undergoes laparotomy for intestinal obstruction. He is brought to the recovery area after surgery.
- 7.1. Briefly describe the parameters you would assess before discharging him from the recovery area to the ward. (40 marks)
- 7.2. Outline your post operative instructions for the first 24 hours. (60 marks)
8. A 62 year old patient with long-standing type II diabetes mellitus is awaiting an open cholecystectomy.
- 8.1. List the problems you would anticipate in this patient during the perioperative period. (40 marks)
- 8.2. Outline the pre operative optimisation. (60 marks)