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POSTGRADUATE INSTITUTE OF MEDICINE
UNIVERSITY OF COLOMBO

CERTIFICATE OF COMPETENCE IN ANAESTHESIOLOGY
EXAMINATION – JUNE 2019

Date :- 3rd June 2019

Time :- 2.00 p.m. – 4.00 p.m.

Answer all eight (08) questions

Each question must be answered in a separate book.

1.
 - 1.1. Draw and label a normal capnography tracing. (30 marks)
 - 1.2. What factors affect its accuracy? (20 marks)
 - 1.3. Graphically illustrate the critical incidents that can be identified by capnography. (50 marks)

2. A 29 year old primigravida with a POA of 35 weeks is scheduled for an urgent Caesarean section due to severe pre-eclampsia. Her blood pressure is 180/105 mmHg. Urine albumin +++ . Reflexes are exaggerated.
 - 2.1. List the complications you would anticipate in anaesthetizing this patient. (40 marks)
 - 2.2. Mention with reasons the investigations that would help in the management of this mother. (30 marks)
 - 2.3. How would you optimize her prior to surgery? (30 marks)

3. You have been called to the operating theatre to see a 2 year old child with suspected acute epiglottitis.
 - 3.1. List the clinical features that would support the above diagnosis. (40 marks)
 - 3.2. How would you secure the airway? (60 marks)

Contd...../2-

4.
 - 4.1. What are the indications for insertion of a central venous catheter in a critically ill patient? (20 marks)
 - 4.2. What are the complications associated with placement of a central venous catheter? (40 marks)
 - 4.3. What measures would you take to minimize the above complications? (40 marks)

5. A 35 year old male has been brought to Accident & Emergency Department following a fall from a tree.
 - 5.1. List the immediate life-threatening conditions you would look for in this patient. (30 marks)
 - 5.2. Outline your initial management if this patient is found to have an isolated chest injury. (70 marks)

6. List the indications, doses used and side effects of the following drugs:
 - 6.1. Magnesium sulphate (40 marks)
 - 6.2. Ketamine (30 marks)
 - 6.3. Amiodarone (30 marks)

7. A 45 year old patient who has undergone an uneventful epigastric hernia repair under spinal anaesthesia, complains of severe chest pain in the recovery area.
 - 7.1. List the most likely causes. (40 marks)
 - 7.2. Outline the management of three (03) of the above. (60 marks)

8. A 60 year old patient diagnosed with chronic obstructive pulmonary disease is awaiting laparotomy under general anaesthesia for obstructed umbilical hernia.
 - 8.1. How would you optimize this patient prior to surgery? (50 marks)
 - 8.2. List the measures you would take to minimize intra and post operative complications. (50 marks)