

### The Hong Kong College of Anaesthesiologists

**Final Fellowship Examination** 

Paper I

23<sup>rd</sup> March 2007 (Friday)

09:00 - 10:30 hrs

Instructions:

- a. There are three pre-labelled answer books. Please make sure you answer the respective questions in the appropriate answer book.
- b. Write your examination number on the cover of each answer book.
- c. Answer **ALL** questions (nine questions). They are worth equal marks and you should spend approximately ten minutes for each question.

#### Scenario A

## A 74-year-old lady presents for right carotid endarterectomy under regional anaesthesia.

- 1. Describe the performance of the regional anaesthetic technique required for this procedure and outline the complications and contraindications.
- 2. Outline the intra- and post-operative management of this patient.
- 3. Briefly explain the physiological changes that may occur with carotid cross clamping.

#### Scenario B

## A 32-year-old healthy man requires a posterior fossa exploration for an acoustic neuroma. Surgery will be performed in the sitting position.

- 4. What anaesthetic technique would you choose for this patient? Justify your choice.
- 5. What specific problems could arise during this type of surgery and how would you monitor for them?
- 6. During removal of the tumour, the patient's pulse oximeter reading  $(SpO_2)$  drops to 78% and end-tidal carbon dioxide  $(ETCO_2)$  drops to 20 mmHg. His heart rate is 70 per minute and the blood pressure 106/63 mmHg. What will be your immediate treatment?

#### Scenario C

# A 68-year-old male with no significant past medical history was found to have carcinoma of oesophagus and is scheduled for Ivor-Lewis oesophagectomy (involving two-stages laparotomy and right thoracotomy).

- 7. Outline the pre-operative and post-operative factors that may contribute to the post-operative respiratory complication for patient undergoing Ivor-Lewis oesophagectomy.
- 8. You notice in your pre-operative assessment that the patient has features suggestive of difficult intubation. List the options of lung isolation techniques and justify your choice for this patient.
- 9. In the operating suite, the surgeon suggests to restrict the use of intra-operative intravenous fluid. What would be your considerations? Discuss your strategy of intra-operative fluid management.

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