



**HONG KONG COLLEGE OF
ANAESTHESIOLOGISTS**

DIPLOMA OF FELLOWSHIP

**FINAL FELLOWSHIP (INTENSIVE CARE)
SHORT ANSWER PAPER**

15 Questions

TUESDAY, 3rd OCTOBER 2006

9.00 am - 11:30 am

NOTICE

- (A) Write your answers in the books provided.
- (B) Start **each answer** on a **new page** and **indicate the question number**. It is not necessary to rewrite the question in your answer book.
- (C) You should answer each question in **ten minutes** or less.
- (D) The questions are worth equal marks.
- (E) Record your number on the cover of each book and hand in all books.

ANSWER THE FOLLOWING

1. Under what situation will you consider using an inferior vena cava filter (IVC filter) in a patient with deep venous thrombosis? What are the precautions you have to take when you have to insert a central venous catheter using the femoral approach in a patient known to have an IVC filter in situ?
2. Briefly describe how you will diagnose brain death.
3. Discuss the pathogenesis, risk factors and prophylactic preventive measures of radiocontrast-induced nephropathy.
4. Briefly describe the role of intravenous magnesium in ICU practice.
5. A 27 year old man has been admitted after a motor vehicle collision. What features would suggest a ruptured thoracic aorta? How would you confirm the diagnosis? Briefly outline your management.
6. Define Standardized Mortality Ratio (SMR). Describe the uses of the SMR. What factors affect the SMR?

7. A 70 year old man presents with pain and rigidity one week after a minor injury while gardening. He has been previously well. He later develops muscle spasms. What is the likely diagnosis? Outline your management of this patient.
8. Critically evaluate the role of percutaneous tracheostomy in ICU.
9. Outline briefly the management of patients with massive haemoptysis in the intensive care unit.
10. Outline briefly potential electrical hazards within the Intensive Care Unit.
11. Discuss the diagnosis and management of compartment syndrome.
12. Explain the following together with the formula for calculation for a diagnostic test:
- i. likelihood ratio for a positive test result
 - ii. pre-test odds
 - iii. post-test probability
 - iv. post-test odds
13. A 65 year old lady has been intubated for respiratory failure due to pneumonia and ARDS. Discuss your fluid management for this patient.
14. Define the terms
- Base Excess
 - Standard Base Excess.
- How do you interpret a base excess of zero.
15. You are asked to insert a lumbar epidural catheter for a patient. Outline the relevant anatomy. List the contra-indications and complications.

End