

The Hong Kong College of Anaesthesiologists

Final Fellowship Examinations

Paper I – Clinical Scenario (1 - 6) & SAQ (7 - 12)

23 March 2023 (Thursday)

09:00 – 11:00 hours

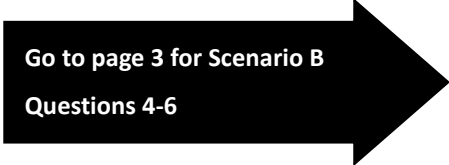
Instructions:

- a. There are twelve pre-labelled answer books. Please make sure you answer the questions in the respective answer books.
- b. Write your candidate number on the cover of each answer book.
- c. Use ink or ball-point pen.
- d. There are 12 questions in this paper. Answer **ALL** questions. They are worth equal marks and you should spend approximately **ten minutes** for each question. For questions with multiple parts, allocation of marks is indicated in the brackets.
- e. Questions 1-3 are related to Scenario A, Questions 4-6 are related to Scenario B, Questions 7-12 are standalone short answer questions.

Scenario A

A 55-year-old lady with rheumatoid arthritis scheduled for elective right total hip replacement.

- 1) Outline your major concerns for this patient in your preoperative anaesthetic assessment.
- 2) Laboratory test revealed microcytic and hypochromic anaemia with haemoglobin of 9g/dl. What are the possible causes (20%) and your strategies to reduce perioperative allogeneic blood transfusion in this patient (80%)?
- 3) Compare and contrast the use of single shot peripheral nerve block versus continuous epidural infusion for postoperative pain management.




**Go to page 3 for Scenario B
Questions 4-6**

Scenario B

A 66-year-old woman sustained head injury after a fall at home. At the Emergency Department, her GCS was E3V4M5 and no external wound or other site of injury was noted. CT brain showed a 1 cm acute subdural haematoma at the left frontal parietal region. She has atrial fibrillation and a transient ischaemic attack 3 years ago on bisoprolol and dabigatran. Neurosurgeon would like to arrange an emergency craniotomy for clot evacuation.

- 4) What are your major considerations in the preoperative assessment?
- 5) During your assessment, the patient developed generalized tonic-clonic convulsion, which stopped spontaneously after 1 minute. She now appears very drowsy with GCS E2V3M3. Discuss how you would prepare this patient for surgery.
- 6) 5 minutes after operation started, SpO2 drops to 88%. Arterial blood pressure shows 220/100mmHg with a pulse 55 bpm. Describe how you are going to stabilize this patient.



**Go to page 4 for
Questions 7-12**

Short Answer Questions

- 7) A 74-year-old man presents for an elective femoral popliteal artery bypass procedure for left leg ischaemia. Outline your preoperative assessment and optimization to reduce cardiovascular complications.
- 8) Outline the perioperative considerations for ambulatory surgery for patients with suspected obstructive sleep apnea syndrome (OSAS) (50%) and measures to mitigate the risks for such patients. (50%)
- 9) A 30-year-old patient with C6 spinal cord injury one year ago is put on list for ureteric stenting. What is autonomic dysreflexia? (30%) Describe the intraoperative management of autonomic dysreflexia. (70%)
- 10) Define chronic postsurgical pain (10%). Briefly describe the incidence (10%), etiology (20%), and prevention (60%) of chronic postsurgical pain after open inguinal hernia repair operation.
- 11) A 75-year-old lady, known to have chronic rheumatic heart disease with mitral stenosis and mitral regurgitation, is scheduled to have open total gastrectomy for CA stomach. Her latest transthoracic echocardiogram 3 years ago showed severe mitral stenosis and moderate mitral regurgitation with a mean pulmonary artery pressure 60mmHg. She was reported to have orthopnea and leg swelling but no shortness of breath at rest.
 - i) Outline the concerns in preoperative assessment? (40%)
 - ii) How would you manage perioperatively with regard to the underlying chronic rheumatic heart disease for the operation? (60%)
- 12) A 65-year old man presented with stridor and is booked for emergency tracheal stenting via rigid bronchoscopy for an obstructing mid-tracheal mass. Outline your anaesthetic management for this patient.

----- End of Paper -----