

Candidate name: _____

FELLOWSHIP TRIAL EXAMINATION

Paper 1 – Book 1

WRITTEN EXAMINATION

SHORT ANSWER QUESTIONS

EXAMINATION TIME: 3 HOURS

DIRECTIONS TO CANDIDATES

1. The exam is divided in to three question booklets and one prop booklet
- Each question booklet is of equal value
2. Each mark is of equal weight
3. Write your name on the front page of each question paper
4. Write your initials on each subsequent page of the question paper
5. Answer each question in the space provided
6. Cross out any errors completely
7. Do not begin the exam until instructed to do so
8. No examination papers or materials to leave the room

Candidate initials: _____

PART 1

Questions 1 – 9

1 hour

Candidate initials: _____

SAQ 1 (double question)

A 25 year old woman has been brought to the ED after a high speed head-on motor vehicle accident.

Her initial chest x-ray is provided in the PROPS BOOKLET.

1. Give the most important pathology demonstrated on this x-ray, with 3 radiographic supporting features.(4 marks)

Most important pathology	Radiographic supporting features

2. What will be your definitive treatment of the diagnosis in Q1? (1 mark)

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3. What other clinically significant pathology is demonstrated in this X-ray? Include the radiographic support for this diagnosis.(2 marks)

Pathology	Radiographic supporting features

You have managed the above injuries and have intubated the patient to optimise ongoing assessment and management.

After a short period, the ventilator has begun to alarm due to high pressures.

4. List six possible causes of high ventilator pressures. (6 marks)

(1) _____

(2) _____

(3) _____

(4) _____

(5) _____

(6) _____

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SAQ 1 (continued)

The patient has undergone CT scanning to delineate her injuries.

A slice from her head CT is provided in the PROPS BOOKLET.

5. List the abnormalities seen on the image.

(6 marks)

(1) _____

(2) _____

(3) _____

(4) _____

(5) _____

(6) _____

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CT scanning has revealed only chest and head injuries as demonstrated in the above images. The chest injury has been satisfactorily managed.

The patient has a dilated left pupil.

Her vital signs are:

GCS	3	sedated and paralysed
Pulse	100	/min
BP	90/60	mmHg
O2 sats	90%	FiO2 0.5

6. State your management steps, including drugs and doses and treatment end-points where appropriate.(8 marks)

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SAQ 2

A 30 year old man has presented to the ED with a painful, swollen left foot after jumping over a high fence. There are no other injuries.

His x-rays are provided in the PROPS BOOKLET.

1. List five abnormalities on the x-ray.

(5 marks)

(1) _____

(2) _____

(3) _____

(4) _____

(5) _____

Candidate initials: _____

2. State your key management steps in the ED. Where appropriate, provide any doses of medications you will use.(5 marks)

3. List two major early complications of this injury for which you will be monitoring the patient. For each, give a cardinal clinical finding.(4 marks)

Complication	Cardinal clinical finding

Candidate initials: _____

SAQ 3

A 41 year old itinerant alcoholic has been brought to the ED with severe epigastric abdominal pain and vomiting.

His arterial blood gas, taken on room air, is provided in the PROP BOOKLET.

1. Comment on the following values on the arterial blood gas. Give likely causes for each abnormality.(8 marks)

Electrolyte	Comment	Likely Cause
Sodium		
Potassium		
Chloride		
Calcium		

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2. List other major abnormalities present, and for each list 2 differential diagnoses.

(9 Marks)

Abnormality	Differential Diagnoses

Candidate initials: _____

SAQ 4

A 12 year old boy has been brought to your ED by his parents with profuse blood loss from his mouth. His clothes are covered in blood.

He had undergone tonsillectomy at your hospital 7 days prior.

On arrival, his vital signs are:

GCS	15	
Pulse	160	/min
BP	75/40	mmHg
RR	30	/min
O ₂ saturation	99%	room air

He looks pale and sweaty.

Your initial assessment is that he does not require immediate intubation.

Candidate initials: _____

1. State your initial management steps, including details of drug doses and end-points. (5 marks)

Candidate initials: _____

After a brief period of time in the ED, the patient has a large vomit consisting of congealed blood. He appears to aspirate a significant portion of vomitus.

You have decided to intubate the patient to protect his airway and to facilitate ongoing management.

2. Complete the table by listing three difficulties you anticipate in his intubation, and the solutions you will employ to manage each.(6 marks)

Difficulty	Solution

Candidate initials: _____

SAQ 5

A 25 year old man has been brought to the ED with agitated behaviour. He was found by bystanders in a park screaming out "Help!" repeatedly.

1. List six features of your assessment that would suggest a psychiatric cause of his behavioural disturbance.(6 marks)

(1) _____

(2) _____

(3) _____

(4) _____

(5) _____

(6) _____

Candidate initials: _____

SAQ 6

A 70 year old man has presented to the ED after a syncopal episode.

His ECG is provided in the PROPS BOOKLET.

The patient's vital signs are:

GCS	12	E3 V4 M5
BP	70/40	mmHg
RR	20	/min
O2 sats	99%	room air

He is pale and sweaty.

1. Give your diagnosis and supportive ECG findings. (5 marks)

Diagnosis: _____

Supportive Findings:

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2. State your treatment steps in sequential order. Include details of drug doses and end-points.(10 marks)

(1) _____

(2) _____

(3) _____

(4) _____

(5) _____

Candidate initials: _____

SAQ 7

You are working in an ED in North Queensland.

A nine year old child has been brought to the ED by her mother after being bitten by a snake in her backyard.

The patient has normal vital signs on arrival.

1. List four specific features of your examination. (4 marks)

(1) _____

(2) _____

(3) _____

(4) _____

2. List the two most relevant laboratory investigations you will perform. (2 marks)

(1) _____

(2) _____

Candidate initials: _____

Initial assessment demonstrates no evidence of envenomation.

3. List your discharge criteria for this girl.

(5 marks)

(1) _____

(2) _____

(3) _____

(4) _____

(5) _____

Candidate initials: _____

SAQ 8

Your tertiary department has received criticism about its management of ST elevation myocardial infarctions (STEMIs). In particular, there has been concern about time to percutaneous coronary intervention (PCI).

Your director has asked you to implement a protocol for patients with STEMIs.

1. List the six steps you will take in the development and implementation of this protocol.(6 marks)

(1) _____

(2) _____

(3) _____

(4) _____

(5) _____

(6) _____

Candidate initials: _____

2. List six specific measures that might reduce time to PCI for these patients. (6 marks)

(1) _____

(2) _____

(3) _____

(4) _____

(5) _____

(6) _____

Candidate initials: _____

SAQ 9

A 7 day old boy has been brought to your ED with jaundice.

1. List six causes of neonatal jaundice. For each one, list a cardinal assessment (history, examination or investigation) finding.(12 marks)

Cause	Cardinal finding