



Fellowship Practice Exam

August 2020 - Book 3

WRITTEN EXAMINATION SHORT ANSWER QUESTIONS

EXAMINATION TIME: 3 HOURS - 1 hour per booklet

Directions to Candidates

This booklet is one of three. It contains 9 questions. Allow 9 minutes for 3 page questions (19 and 27), and 6 minutes for 2 page questions (20 - 26). The entire booklet should take you 1 hour to complete.

1. Answer each question in the space provided in this question paper.
2. Do not write your name on this question paper.
3. Write your candidate number **on each page** in the space provided.
4. Cross out any errors completely.
5. Do not begin the exam until instructed to do so.
6. No examination papers or materials to leave the room.
7. Props are provided in a separate booklet.

Question 19 (18 marks)

A 24 year old woman presents to your tertiary Emergency department with delirium. You suspect a toxic ingestion.

a) List three (3) possible **toxicological** causes for her condition that require **specific treatment**. For each agent, list one (1) clinical feature that would help differentiate from the other causes, one (1) specific treatment that may be required and one (1) indication for its use. (12 marks)

	Agent	Clinical feature	Specific Rx	Indication
1				
2				
3				

Question 19 (continued)

Toxic ingestion has been excluded.

b) List three (3) important **non-toxicological** differential diagnoses for her condition, and for each give your method of confirming the diagnosis. (6 marks)

	DDx	Diagnostic method
1		
2		
3		

Question 20 (12 marks)

A 23 year old overweight gentleman with no past medical history presents to your Emergency Department with a severely painful left knee whilst running. He appears pale, sweaty and quite tearful. He is seen by your Resident Medical Officer. The patient's Left Knee Xray is shown in **PROPS BOOKLET; PAGE 9.**

a) State your diagnosis, providing two (2) abnormalities on this Xray. (3 marks)

Diagnosis

Abnormalities

1. _____

2. _____

b) List three (3) critical clinical findings that would require immediate surgical intervention for this injury. (3 marks)

1. _____

2. _____

3. _____

Question 20 (continued)

c) List six (6) potential complications related to this injury. (6 marks)

1. _____

2. _____

3. _____

4. _____

5. _____

6. _____

Question 21 (13 marks)

It is Saturday 1800 and you are the consultant in charge of a tertiary hospital ED. You have been notified of a collision between two trains. There are a number of casualties and potentially a chemical spill.

a) List the Seven (7) important initial information do you need from the scene? (7 marks)

1. _____

2. _____

3. _____

4. _____

5. _____

6. _____

7. _____

Question 21 (continued)

b) State the two (2) types of on-scene triage that occur and what is each used to determine. (2 marks)

	Triage type	Determination
1		
2		

c) State Four (4) essential steps you need to undertake after receiving this phone call. (4 marks)

- 1. _____
- 2. _____
- 3. _____
- 4. _____

Question 22 (12 marks)

You are the ED consultant in a metropolitan Emergency Department. A 4 week old baby boy is brought by his parents with significant vomiting over the past 8 hours.

His Vital signs on arrival:

Temp 37.2 °C
Heart Rate 130 bpm
RR 22 bpm
O2 Saturations 96% RA

You are concerned about pyloric stenosis.

a) State two (2) specific investigations and expected abnormal findings that would support this diagnosis. (4 marks)

	Investigation	Expected finding
1		
2		

Question 22 (continued)

a) State four (4) **other** differential diagnoses of intestinal obstruction in this neonate and state most prominent clinical features that would fit with this diagnosis. (8 marks)

	DDx	Most prominent clinical feature
1		
2		
3		
4		

Question 23 (13 marks)

An 18-year-old woman presents to your Emergency Department with worsening of her fatigue, abdominal distension and exertional dyspnea for the past few weeks. She was triaged as "Category 4" on arrival, and has been waiting for 2 hours when she gets frustrated and wants to leave. The triage nurse brings her to a cubicle and asks you (Consultant in charge of the shift) to see her quickly.

a) State the two (2) underlying principles of triage? (2 marks)

1. _____

2. _____

After your initial assessment, you decide to proceed with the imaging modality shown below to investigate her abdominal distention.

Her imaging modality shown in **PROPS BOOKLET; PAGE 10**.

b) What is the imaging modality? (1 mark)

c) List four (4) major abnormalities on her shown imaging. (4 marks)

1. _____

2. _____

3. _____

4. _____

Question 23 (continued)

d) List Four (4) important differential diagnosis you would consider for this patient. (4 marks)

1. _____

2. _____

3. _____

4. _____

e) List two (2) further imaging modality, you would consider in this patient with one rationale for each. (2 marks)

	Imaging	Rationale
1		
2		

Question 24 (12 Marks)

A previously well 18-month old girl is brought to the Emergency Department with a persistent cough and noisy breathing. Her symptoms began when she and her older brother had been sharing some raw carrots at lunchtime. Her Xray is shown in **PROPS BOOKLET ; Page 11.**

a) List two (2) abnormal findings on the x-ray (2 marks).

1. _____

2. _____

b) What is the likely diagnosis? (2 marks)

Question 24 (Continued)

c) List four (4) important management steps. (4 marks)

1. _____
2. _____
3. _____
4. _____

While waiting for definitive management, she develops significant work of breathing, stridor, and an ineffective cough.

d) List your four (4) immediate management steps. (4 marks)

1. _____
2. _____
3. _____
4. _____

Question 25 (12 marks)

You are in the duty Consultant in charge when there is a Code Red (Fire) announced in your hospital. The particular site of the announced fire is the Medical Imaging Department that is immediately adjacent to your ED.

a) State five (5) important steps that your department should take in response to this announcement. (5 marks)

1. _____

2. _____

3. _____

4. _____

5. _____

Question 25 (continued)

One of the patients who was passing through your department when the announcement was made is a woman at 40/40 gestation who is in labour. It appears that she will deliver within the next 15 minutes.

b) State three (3) actions that you will take to ensure that she delivers safely. (3 marks)

1. _____

2. _____

3. _____

There is a ventilator-dependent patient in a resuscitation cubicle.

c) List four (4) things that should be done to prepare for safe evacuation of this patient. (4 marks)

1. _____

2. _____

3. _____

4. _____

Question 26 (11 marks)

A 75 year-old male, overseas visitor, is brought by his family to your Emergency Department after experiencing chest heaviness. His pain has self-resolved since arrival. He has suffered a NSTEMI and after your assessment you recommend admission to the Coronary Care Unit. He is refusing admission and wants to discharge himself against your advice.

a) State four (4) criteria that should be met under the Mental Health Act, for a patient to be deemed competent. (4 marks)

1. _____

2. _____

3. _____

4. _____

Question 26 (continued)

b) You decide to formally assess his cognition. Name one (1) scaling system that you can use, and state three (3) advantages and three (3) disadvantages of such a scale. (7 marks)

Scaling system:

Advantages:

1. _____

2. _____

3. _____

Disadvantages:

1. _____

2. _____

3. _____

Question 27 (19 marks)

You are working in a level 1 Trauma Centre . You receive an ambulance pre-notification regarding a 23 year old male involved in a single vehicle high speed accident, striking a pole. The patient has abdominal injuries.

He was intubated at the scene. He has a single, large-bore IV cannula and has received 250ml of normal saline. He has been placed in a hard collar and pelvic binder.

His observations at the scene were:

Temp	34	°C
HR	160	bpm
BP	75/50	mmHg
O2 Saturations	99%	FiO2 0.6
GCS	3	(E1, M1, V1)

The patient arrives and you commence initial assessment and management.

Question 27 (continued)

a) List the three (3) components of the “Lethal Triad of Trauma”. For each component list two (2) actions you would take to prevent these from contributing to the patient’s morbidity and mortality. (9 marks)

	Component	Action/Treatment
1		1
		2
2		1
		2
3		1
		2

Question 27 (continued)

After your initial expert management, the vital signs and haemodynamic status improve sufficiently to allow for safe transfer to the CT scanner. Two consecutive slices of his abdominal CT scan are shown in **PROPS BOOKLET ; PAGE 12.**

b) State three (3) most important findings on his abdominal CT. (3 marks)

1. _____

2. _____

3. _____

c) In general, state three (3) indications for Angioembolisation of any patient with the above type of injury? (3 marks)

1. _____

2. _____

3. _____

Question 27 (continued)

d) List four (4) laboratory based target parameters you would use to guide your resuscitation / massive transfusion protocol, in any patient with severe trauma. (4 marks)

1. _____

2. _____

3. _____

4. _____