

Fellowship Practice Exam

February 2019 - Book 1

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 (1 and 9), and 6 minutes for 2 page questions (2 - 8). 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.

Candidate number	
-------------------------	--

Question 1 (17 marks)

You have been asked to deliver a teaching session to a group of final year medical students about paediatric life support.

a) Complete the table below by listing further details regarding each topic (7 marks)

Topic	Details
Basic Life Support compression-ventilation ratio	
Advanced Life Support compression-ventilation ratio	
Compression rate per minute	
Compression depth	
Adrenaline dose and timing / frequency	
Amiodarone dose and timing / frequency	
Defibrillator Energy Setting (J)	

Candidate	number	
Canuluate	Humber	

Question 1 (continued)

b) State two (2) anatomical or physiological differences between paediatric and adult patient related to resuscitation for each of the following. (10 marks)	ıts
i) Airway (2 marks)	
ii) Breathing (2 marks)	
iii) Circulation (2 marks)	

Cand	lidate	number	
Canc	nuate	Humber	

Question 1 (continued)

iv)	Disability (2 marks)
v)	Exposure (2 marks)

Candidate	number	
Canquate	number	

Question 2 (12 marks)

A 45 year old woman presents with sudden loss of hearing in her left ear. There is no history of trauma.

differential diagnoses for this patient. (5 marks) 1	a)	Apart from idiopathic sudden sensorineural hearing loss, list five (5) likely
2	dif	ferential diagnoses for this patient. (5 marks)
2		
3.	1.	
	2.	
4	3.	
	4.	
5		

Candidate	number	
Canquate	number	

Question 2 (continued)

b) Complete the following table with regard to the examination of a person with hearing loss. (6 marks)

Test	Brief description of test (2 marks)	Findings in conductive hearing loss (2 marks)	Findings in sensorineural hearing loss (2 marks)
Rinne			
Weber			

c) You decide the patient has idiopathic sudden sensorineural hearing loss. List one drug and dose that you would prescribe for this patient. (1mark)

Question 3 (12marks)

tal signs:			
emperature	39.5	۰C	
łR	120	bpm	
SP.	108/70 m	_	
R	28		
02 sats	95%	room air	
2 sais	7570	100m an	
u are concerne	d the patient m	ight have epiglottitis.	
List four (4) ot	her likely infec	ctious causes of stridor in this patient (4marks)	
List four (4) 1	most likely or	ganisms to cause epiglottis in this adult. (4)	marks)
List four (1)	most interf of	Samonio to cause opisiottio in tino addit. (1)	marnsy
-			

A 64-year-old woman presents with fever, sore throat and soft stridor. She looks unwell.

Candidate	number	
Canquate	number	

Question 3 (continued)

c) S	c) State four (4) immediate management priorities (4 marks)					
1.						
2.						
3.						
4						

Candidate	number	
Canquate	number	

Question 4 (12 marks)

An 18 month-old girl presents to the ED with vomiting and drowsiness. She is afebrile, with no focal neurology. Airway, breathing and circulation are stable, however, it is noted that a blood glucose is measured at 1.4 mmol/L. Her wight is 13 kg.

Question 4 (continued)

b) S	b) State six (6) management steps for this child. (6 marks)				
1.					
2.					
5.					
6.					

Candidate	number	
Canuluate	Humber	

Question 5 (11 marks)

A 24 yea	r old mal	e with	a history	of Crohn's	disease	presents	with	severe a	abdominal	pain
and fever	r.									

a) List two (2) pros and two (2) cons for the use of abdominal Xray as part of the assessment of this man's pain (2 marks)
Pros
1
2
Cons
1
2

Candidate number

Question 5 (continued)

His	Abdominal Xray is shown in props booklet; page 3.	
b) L	ist two (2) abnormal findings shown on this Xray. (2 marks)	
1		_
2		-
	Iaving reviewed this Xray, state five (5) KEY management priorities whilst to the emergency department. (5 marks)	he patient
1.		
2.		
3.		
4.		
5.		

Question 6 (12 marks)

A 2 week old baby is brought to ED with a swollen scrotum. Complete the table below listing three (3) main differential diagnoses with two(2) key examination findings and key management step for each condition.

(12 marks)

Question 6 (continued)

Diagnosis (3 marks)	2 key examination findings (6 marks)	Key Management Step (3 marks)
	1.	
	2.	
	1.	
	2.	
	1.	
	2.	

Question 7 (12 marks) 6 minutes

A 30 year old woman with known Sickle Cell Anaemia ha	s presented to your Emergency
department after sudden onset of severe abdominal pain. I	Her observations are:

HR BP RR Sat Temp GCS	120 100/60 16 97% 37.3 15	bpm mmHg bpm room air ° C
a) List four develop. (4r		severe complications of Sickle Cell Anaemia that this lady is likely to
1		
2		
3		
4		
		ors that would influence your decision to give this lady a blood occasion. (4 marks)
1		
2		
3		
4		

Candidate	number
Canuluate	Hullioti

Question 7 (continued)

_	ist four (4) factors that would influence your decision to administer intravenous phine for her pain. (4 marks)
1.	
2	
3.	
4.	

Candidate number

Question 8 (9 marks) 6 minutes

A 60 year old woman from home presents with epigastric and generalised abdominal pain for 24 hours. She has associated vomiting. A CT SCAN of the abdomen and pelvis is obtained.

A coronal scout image from CT abdomen and pelvis is obtained and shown in the props booklet; page 4.

a) What is the presumptive diagnosis? (1 mark)			
b) L	ist four (4) important features demonstrated in this image (4 marks)		
1			
2			
3.			
4.			

Question 8 (continued)

c) State four (4) immediate management priorities including details of any trogiven. (4 marks)	eatments
1	
2.	
3.	
4.	

Candidate	number	
Canuluate	Humber	

Question 9 (18 marks)

Your Registrar has intubated a 75-year-old with a history of ischaemic heart disease and pulmonary hypertension who presented to the ED with an exacerbation of COPD.

The patient is currently:

Intubated

Apnoeic post induction being hand bagged with high pressures

O2 sats 80% on FIO2 100 % HR 155 bmp irregular BP 70/50 mmHg

In the three tables below, for each parameter, list three (3) interventions you would immediately perform with one (1) point of justification for your choice for this patient. (18 marks)

a)

	Airway Intervention	Justification
1		
2		
3		

Candidate	number	
Canquate	number	

Question 9 (continued)

b)

	Ventilation Intervention	Justification
1		
2		
3		

Question 9 (continued)

c)

	Circulation Intervention	Justification
4		
1		
2		
3		