



# Fellowship Practice Exam

**May 2017 - Book 2**

## **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 (10 and 18), and 6 minutes for 2 page questions (11 - 17). 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 10 (18 marks)**

You are managing a 45 year old male who requires endotracheal intubation and you assess the patient to have a difficult airway.

a) List four (4) SPECIFIC circumstances that would lead you to choose awake, fiberoptic guided intubation as your first intubation method of choice. (4 marks)

1. \_\_\_\_\_

2. \_\_\_\_\_

3. \_\_\_\_\_

4. \_\_\_\_\_

b) List four (4) patient factors that would allow you to choose awake, fibre-optic intubation. (4 marks)

1. \_\_\_\_\_

2. \_\_\_\_\_

3. \_\_\_\_\_

4. \_\_\_\_\_

**Question 10 (continued)**

Following your assessment you decide to progress with rapid sequence induction. You are unable to pass an endotracheal tube and progress to place a laryngeal mask airway.

c) State three (3) advantages of placement of a laryngeal mask airway as compared to ongoing bag, mask ventilation. (3 marks)

1. \_\_\_\_\_

2. \_\_\_\_\_

3. \_\_\_\_\_

d) State three (3) disadvantages of placement of a laryngeal mask airway as compared to an endotracheal tube. (3 marks)

1. \_\_\_\_\_

2. \_\_\_\_\_

3. \_\_\_\_\_

**Question 10 (continued)**

e) List four (4) clinical findings that would make you suspect malignant hyperthermia. (4 marks)

1. \_\_\_\_\_

2. \_\_\_\_\_

3. \_\_\_\_\_

4. \_\_\_\_\_

**Question 11 (12 marks)**

The parents of a young child arrive in the ED with a GP letter diagnosing a likely intussusception.

a) List three (3) risk factors for intussusception. (3 marks)

1. \_\_\_\_\_

2. \_\_\_\_\_

3. \_\_\_\_\_

b) List three (3) clinical findings when examining this child's abdomen that would support the diagnosis or complication of intussusception. List one (1) significance for each finding. (6 marks)

	<b>Examination finding</b>	<b>Significance</b>
<b>1</b>		
<b>2</b>		
<b>3</b>		

**Question 11 (continued)**

c) List three (3) complications of performing an air enema. (3 marks)

1. \_\_\_\_\_

2. \_\_\_\_\_

3. \_\_\_\_\_

**Question 12 (12 marks)**

A 32 year old male presents with 8 hour history of painful erection, without any preceding trauma, to your ED.

a) List five (5) likely causes of his priapism. (5 marks)

- 1. \_\_\_\_\_
- 2. \_\_\_\_\_
- 3. \_\_\_\_\_
- 4. \_\_\_\_\_
- 5. \_\_\_\_\_

b) List three (3) investigations useful in elucidating the aetiology of priapism with one justification for each (3 marks)

	<b>Investigation</b>	<b>Justification</b>
<b>1</b>		
<b>2</b>		
<b>3</b>		

**Question 12 (continued)**

c) State two (2) interventions and two (2) medications (with detail) that you would use in management of priapism. (4 marks)

Interventions :

1. \_\_\_\_\_

2. \_\_\_\_\_

Medications :

1. \_\_\_\_\_

2. \_\_\_\_\_

**Question 13 (12 marks)**

A previously well 24 year old female presents to the ED with acute onset of right iliac fossa pain. Her LNMP was 2 weeks earlier and there is no history of PV bleeding.

HR	105	/min
Sats	100 %	RA
Temp	37°C	
BP	80/55	/min
GCS	15	

a) List six (6) likely differential diagnoses for this patient. (6 marks)

1. \_\_\_\_\_
2. \_\_\_\_\_
3. \_\_\_\_\_
4. \_\_\_\_\_
5. \_\_\_\_\_
6. \_\_\_\_\_

**Question 13 (continued)**

b) Her urine HCG is negative. List three (3) investigations you would order with one justification for each. ( 6 marks)

	<b>Investigation</b>	<b>Justification</b>
<b>1</b>		
<b>2</b>		
<b>3</b>		

**Question 14 (12 marks)**

A 2 year old boy is brought to ED after jumping from a bed. He is refusing to weight bear on his left leg. **An X-ray is performed and shown in PROPS BOOKLET ; Page 7.**

a) State three (3) descriptive features of your abnormal finding. (3 marks)

1. \_\_\_\_\_

2. \_\_\_\_\_

3. \_\_\_\_\_

b) What is the diagnosis? (1 mark)

\_\_\_\_\_

**Question 14 (continued)**

c) State four (4) methods to manage this patient's pain. (4 marks)

1. \_\_\_\_\_

2. \_\_\_\_\_

3. \_\_\_\_\_

4. \_\_\_\_\_

d) What is your disposition plan? (1 mark)

\_\_\_\_\_

e) List three (3) potential complications associated with this injury. (3 Marks)

1. \_\_\_\_\_

2. \_\_\_\_\_

3. \_\_\_\_\_

**Question 15 (12 marks)**

A 40 yo builder presents after falling from a ladder. His only complaint is of moderate upper abdominal pain.

His vital signs on arrival:

HR	90	/min
Sats	97 %	RA
BP	100/60	/min
GCS	15	

**His CT SCAN is taken and shown in PROPS BOOKLET ; page 8.**

a) List three (3) abnormalities on his CT. (3 marks)

1. \_\_\_\_\_

2. \_\_\_\_\_

3. \_\_\_\_\_

b) What is your diagnosis? (1 mark)

\_\_\_\_\_

**Question 15 (continued)**

c) List & Justify four (4) key further Investigations to be performed in the ED. ( 4 marks)

	<b>Investigation</b>	<b>Justification</b>
1		
2		
3		
4		

d) State four (4) criteria in this patient that would lead you to consider Angiography with embolisation. (4 marks)

1. \_\_\_\_\_

2. \_\_\_\_\_

3. \_\_\_\_\_

4. \_\_\_\_\_

**Question 16 (13 marks)**

A 12-year-old boy is brought to your rural emergency department, following a dog bite to his face;

- a) State the differences between dog and cat bite in the following table. List one (1) fact for each variable for dog and cat bite. (6 marks)

<b>VARIABLE</b>	<b>Dog bite (3 marks)</b>	<b>Cat bite (3 marks)</b>
<b>Common micro-organism</b>		
<b>Wound characteristics</b>		
<b>Risk of infection</b>		

- b) List three (3) risk factors for infection in bites in general. (3 marks)

1. \_\_\_\_\_

2. \_\_\_\_\_

3. \_\_\_\_\_

**Question 16 (continued)**

c) State general recommendations for would repair in animal bites in the following table. (4 marks)

	<b>Primary closure</b>	<b>Antibiotics</b>
<b>Dog</b>		
<b>Cat</b>		

**Question 17 (13 marks)**

You have been asked to assist in the purchase of a new ultrasound machine for your department.

a) Describe five (5) steps you would take to gather information for this purchase. (5 marks)

- 1. \_\_\_\_\_
- 2. \_\_\_\_\_
- 3. \_\_\_\_\_
- 4. \_\_\_\_\_
- 5. \_\_\_\_\_

b) List four (4) stakeholders you need to consider. (4 marks)

- 1. \_\_\_\_\_
- 2. \_\_\_\_\_
- 3. \_\_\_\_\_
- 4. \_\_\_\_\_

**Question 17 (continued)**

c) Describe four (4) steps in setting up a credentialing programme for the use of the ultrasound in your department. (4 marks)

1. \_\_\_\_\_

2. \_\_\_\_\_

3. \_\_\_\_\_

4. \_\_\_\_\_

**Question 18 (18 marks)**

A 40 year old male has presented to the Emergency Department complaining of ongoing chest pain over the previous hour.

He has a past history of hypercholesterolemia and is taking no medications.

**His 12 lead ECG is shown in PROPS BOOKLET ; Page 9.**

a) List three (3) important findings on this man's ECG. (3 marks)

1. \_\_\_\_\_

2. \_\_\_\_\_

3. \_\_\_\_\_

b) What is the significance of the abnormalities in his ECG ? (1 mark)

\_\_\_\_\_

**Question 18 (continued)**

The junior cardiology registrar is uncertain what steps should be taken next and asks your advice.

c) What two important pieces of information would you give him? (2 marks).

1. \_\_\_\_\_

\_\_\_\_\_

2. \_\_\_\_\_

\_\_\_\_\_

**Question 18 (continued)**

d) List your four (4) most urgent drug treatments; giving your rationale for each. (12 marks)

	<b>Medication</b>	<b>Dosage - Route</b>	<b>RATIONALE</b>
<b>1</b>			
<b>2</b>			
<b>3</b>			
<b>4</b>			