

Candidate name: \_\_\_\_\_

## **PAH 2016.1 trial SAQ paper**

### **PART 2**

**Questions 10 - 18**

**1 hour**

Candidate initials: \_\_\_\_\_

**SAQ 10 (double question)**

A 65 year old man has presented to the ED with shortness of breath.

His chest x-ray is provided in the **PROP BOOKLET**.

1. List the significant x-ray findings. (5 marks)

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2. List **five specific infectious causes** of this pathology. (5 marks)

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3. List **three non-infectious causes** of this pathology. (3 marks)

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The patient's vital signs are:

GCS	14	E4 V5 M6
Pulse	130	/min
BP	80/40	mmHg
Temperature	39.3	degrees
RR	32	/min
O <sub>2</sub> saturations	86%	room air

4. List your treatment steps in sequential order. Include details of drug doses and end-points where appropriate. (6 marks)

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After initial therapy, you have decided to insert a central line. You have obtained consent for the procedure.

5. List eight key steps in inserting an internal jugular central line. (8 marks)

(1) \_\_\_\_\_

\_\_\_\_\_

(2) \_\_\_\_\_

\_\_\_\_\_

(3) \_\_\_\_\_

\_\_\_\_\_

(4) \_\_\_\_\_

\_\_\_\_\_

(5) \_\_\_\_\_

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(6) \_\_\_\_\_

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(7) \_\_\_\_\_

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(8) \_\_\_\_\_

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**SAQ 11**

A 75 year old man has been brought to the ED from his high level care nursing home with abdominal pain.

His abdominal x-ray is provided in the **PROP BOOKLET**.

1. Give your diagnosis, supported by the abnormal radiological findings. (4 marks)

Diagnosis: \_\_\_\_\_

Radiological Findings: \_\_\_\_\_

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2. List **three possible methods** for management of this problem. (3 marks)

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3. List six considerations when determining the **ceiling of care** for this gentleman.

(6 marks)

- (1) \_\_\_\_\_  
\_\_\_\_\_
- (2) \_\_\_\_\_  
\_\_\_\_\_
- (3) \_\_\_\_\_  
\_\_\_\_\_
- (4) \_\_\_\_\_  
\_\_\_\_\_
- (5) \_\_\_\_\_  
\_\_\_\_\_
- (6) \_\_\_\_\_  
\_\_\_\_\_

**SAQ 12**

A 37 year old man has been brought to the ED after being found collapsed in the park. It was apparent from his attire that he had been running. His past medical history is unknown.

On arrival, his vital signs are:

GCS	7	E1 V2 M4
Pulse	130	/min
BP	80/40	mmHg
RR	32	/min
O2 saturations	91%	room air
Temperature	40.1	degrees

The working diagnosis is heat stroke.

1. List six complications of heat stroke. (6 marks)

(1) \_\_\_\_\_

(2) \_\_\_\_\_

(3) \_\_\_\_\_

(4) \_\_\_\_\_

(5) \_\_\_\_\_

(6) \_\_\_\_\_

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2. Give three differential diagnoses. For each, give a cardinal assessment feature.

(6 marks)

Diagnosis	Assessment feature



**Candidate initials:** \_\_\_\_\_

### SAQ 13

A 56 year old woman has presented to your rural ED with 1 hour of central chest pain. The nearest tertiary centre is 3 hours away.

Her significant history is of a myocardial infarction 2 years ago.

Her ECG is provided in the **PROP BOOKLET**.

1. List the **pathologies present on the ECG**, include the **specific ECG features** to support your conclusions. (8 marks)

[illegible]

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Her vital signs are:

GCS	15	
BP	110/60	mmHg
RR	25	/min
O <sub>2</sub> saturations	100%	6L O <sub>2</sub> via mask

2. State six key **treatment steps**, including drugs and doses. (6 marks)

- (1) \_\_\_\_\_  
\_\_\_\_\_
- (2) \_\_\_\_\_  
\_\_\_\_\_
- (3) \_\_\_\_\_  
\_\_\_\_\_
- (4) \_\_\_\_\_  
\_\_\_\_\_
- (5) \_\_\_\_\_  
\_\_\_\_\_
- (6) \_\_\_\_\_  
\_\_\_\_\_

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**SAQ 14**

You have been asked to deliver a talk to a group of medical students about paediatric resuscitation.

1. Complete the following table regarding the **specific management** of paediatric advanced life support. (6 marks)

Topic	Details
Compression : ventilation rate	
Adrenaline dose	
Adrenaline timing (non-shockable rhythm)	
Amiodarone dose	
Amiodarone timing	
Energy setting for defibrillation	

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2. List eight **reversible causes** to be considered in paediatric advanced life support.

(8 marks)

- (1) \_\_\_\_\_
- (2) \_\_\_\_\_
- (3) \_\_\_\_\_
- (4) \_\_\_\_\_
- (5) \_\_\_\_\_
- (6) \_\_\_\_\_
- (7) \_\_\_\_\_
- (8) \_\_\_\_\_

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**SAQ 15**

A 20 year old man has presented to the ED after falling off a wall on to his right hand.

The x-ray of his right forearm is provided in the **PROP BOOKLET**.

1. List the abnormalities on the x-ray. Include **detailed radiological descriptions** of each problem. (8 marks)

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2. State four management steps for this injury. Include drug doses where appropriate.  
(5 marks)

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**SAQ 16**

A 36 year old man with a history of schizoaffective disorder has presented following a large overdose of citalopram.

His ECG is provided in the **PROP BOOKLET**.

1. In relation to this ECG, complete the following. (3 marks)

Rate: \_\_\_\_\_

Rhythm: \_\_\_\_\_

Axis: \_\_\_\_\_

2. What is the main abnormality manifest on the ECG and what does this abnormality represent at a cellular level? (2 marks)

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3. List **three other agents** that could produce the same ECG abnormality. (3 marks)

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4. List six examination features that would be **consistent with significant poisoning from citalopram**. (6 marks)

- (1) \_\_\_\_\_
- (2) \_\_\_\_\_
- (3) \_\_\_\_\_
- (4) \_\_\_\_\_
- (5) \_\_\_\_\_
- (6) \_\_\_\_\_



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**SAQ 17**

A 25 year old woman has presented to the ED with a painful left eye.

Her clinical photograph is provided in the **PROP BOOKLET**.

1. List four abnormalities in the photograph. (4 marks)

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2. What is the likely diagnosis? (1 mark)

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3. State three important steps in your management of this patient. (4 marks)

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4. List three predisposing conditions for this problem. (3 marks)

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**SAQ 18**

A 35 year old woman has been brought to the ED with a prolonged generalised seizure.

Her medical history is unknown.

1. List **four specific pharmacological options** for termination of her seizure, including doses. (4 marks)

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2. List five differential diagnoses for her prolonged seizure. (5 marks)

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3. List five **serious complications** of status epilepticus. (5 marks)

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