

Candidate name: _____

Department of
Emergency Medicine

Princess Alexandra Hospital

FELLOWSHIP TRIAL EXAMINATION
2019.1

WRITTEN EXAMINATION

SHORT ANSWER QUESTIONS

PROPS
BOOKLET

Candidate initials: _____

Q1

A 28 year old man has presented to the ED after falling 2 metres from a ladder landing on to his head.

As part of his assessment, a CT scan of his cervical spine was performed. One image from this scan is provided below.



Q3

A 26 year old woman has been brought to the ED after being found unconscious in her bed at home. She has not been seen for 2 days.

Her blood chemistry is provided below.

Blood chemistry profile

Na	135	mmol/L	(135 – 145)
K	4.5	mmol/L	(3.5 – 4.2)
Cl	100	mmol/L	(95 – 110)
HCO ₃	2	mmol/L	(22 – 32)
Urea	5.8	mmol/L	(2.1 – 7.1)
Creatinine	160	umol/L	(60 – 110)
Total protein	50	g/L	(60 – 80)
Albumin	30	g/L	(35 – 50)
Globulin	20	g/L	(25 – 45)

Liver function tests

Bilirubin	77	umol/L	(<20)
ALP	143	U/L	(30 – 110)
Gamma GT	328	U/L	(<55)
ALT	8050	U/L	(<45)
AST	7560	U/L	(<35)

Q5

A 10 month old boy has been brought to the ED by his mother. She is concerned that he has been crying and not using his left arm. An x-ray has been performed due to apparent arm tenderness on examination.

The x-ray is provided below.



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Q8

A 14 year old boy has presented to the ED with a painful right hand. He injured his index finger 2 days prior while climbing a tree. The patient has type 1 diabetes mellitus.

A clinical photograph of the right hand is provided below.



Q9

A 45 year old man with a history of alcohol abuse has presented to your department with intractable vomiting.

On examination, the patient is diaphoretic with epigastric tenderness.

A venous blood gas is provided below.

Venous blood gas

pH	7.61		(7.35 – 7.45)
pCO ₂	19	mmHg	(35 – 45)
HCO ₃	18	mmol/L	(22 – 32)
Na	137	mmol/L	(135 – 145)
K	3.7	mmol/L	(3.5 – 4.2)
Cl	98	mmol/L	(95 – 110)
Ionised Ca	1.03	mmol/L	(1.15 – 1.32)
Glucose	4.8	mmol/L	(3.0 – 7.8)
Lactate	8.5	mmol/L	(0.5 – 2.2)

Q10

The ambulance service is transporting a 55 year old woman following an out of hospital cardiac arrest. They report the initial rhythm was PEA. Return of spontaneous circulation was achieved after 15 minutes of ALS which consisted of CPR, 3mg of adrenaline and intubation.

You are preparing your team to accept this patient.

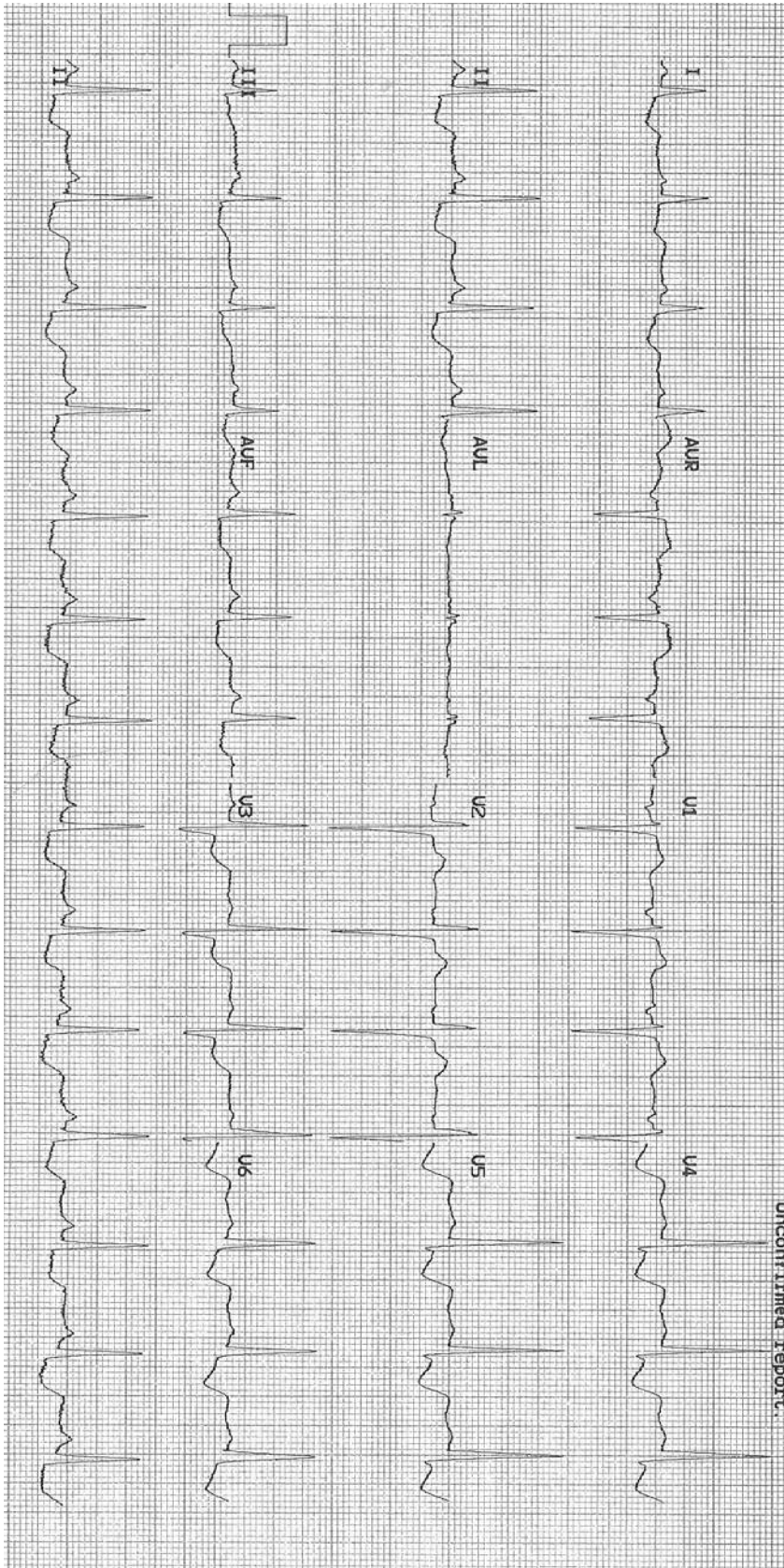
On arrival, the patient has the following vital signs:

GCS	3	
Pulse	90	/min
BP	165/96	mmHg
O2 saturation	100%	FiO2 100%
Temperature	35.5	degrees

The ambulance handover describes a sudden collapse with no preceding symptoms.

An ECG is provided below.

Q 10 (cont)

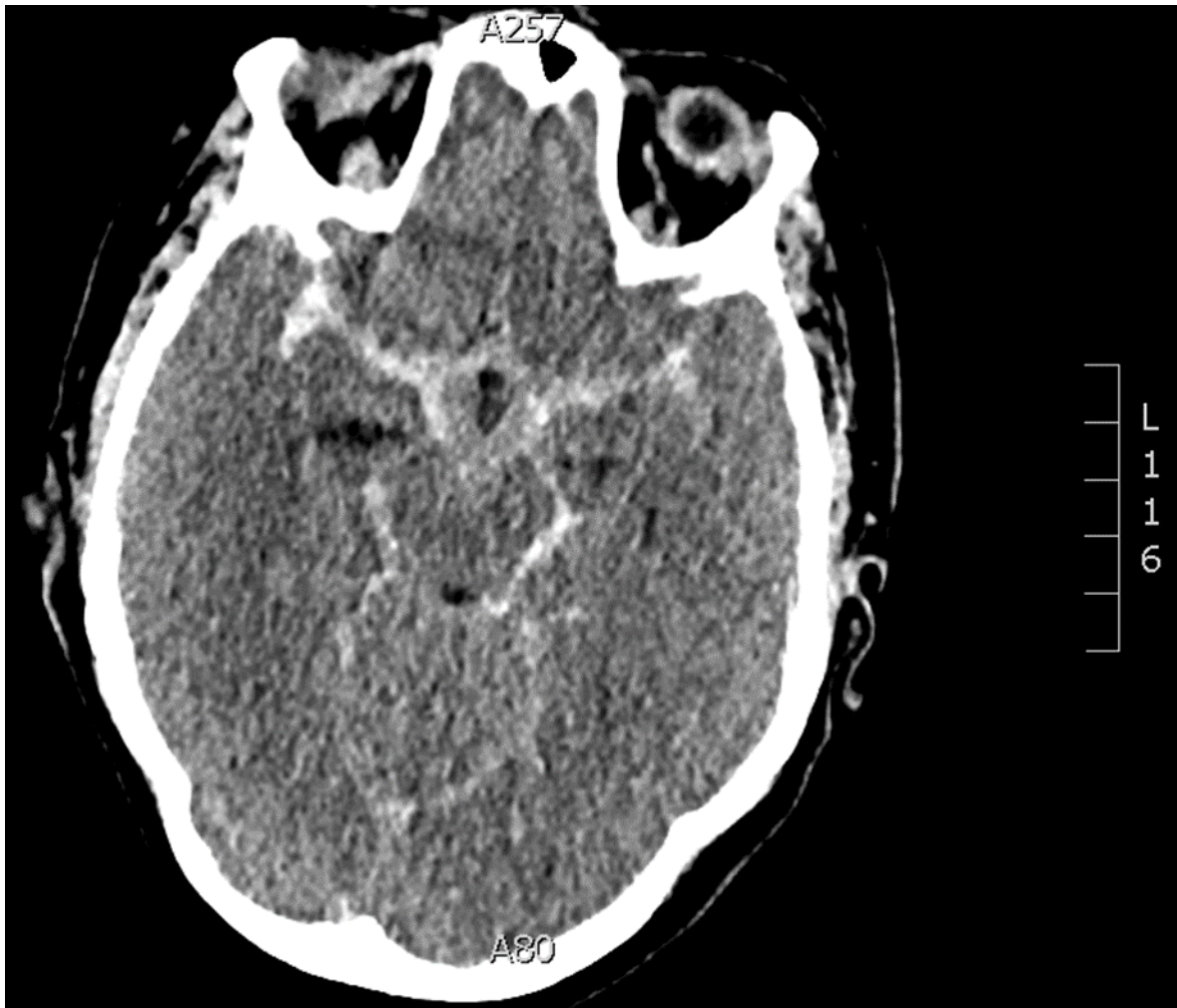


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Q10 (cont)

The patient has been given no sedation or paralysis and remains GCS 3. A non-contrast CT scan of her head has been performed.

A slice of the patient's CT head is provided below.

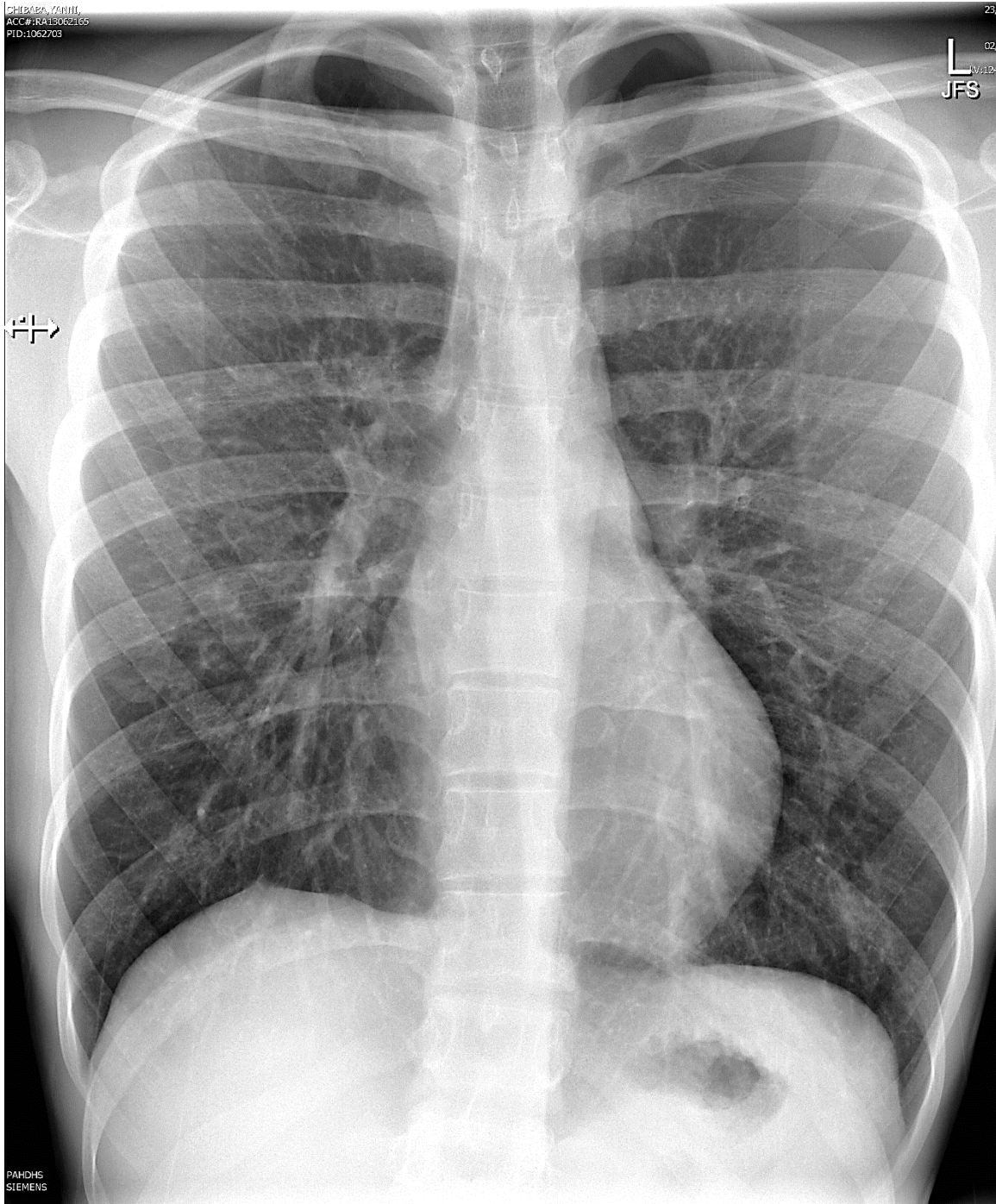


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Q13

A 20 year old man has presented with chest pain and difficulty breathing. He has no known medical problems.

His chest x-ray is provided below.



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Q14

A 27 year old man has presented to ED one hour after being bitten by a snake on his right hand. He is complaining of pain at the bite site. A pressure immobilisation bandage (PIB) has been applied.

The patient is complaining of double vision in all directions of gaze.

A clinical photograph is provided below.



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Q17

A 35 year old woman has presented to the ED with a rash over her trunk and arms.

A clinical photograph has been provided below.



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Q20

A 5 year old girl has been brought to the ED with a 3 day history of vomiting, diarrhea and lethargy.

A full blood count is provided below.

Full blood count

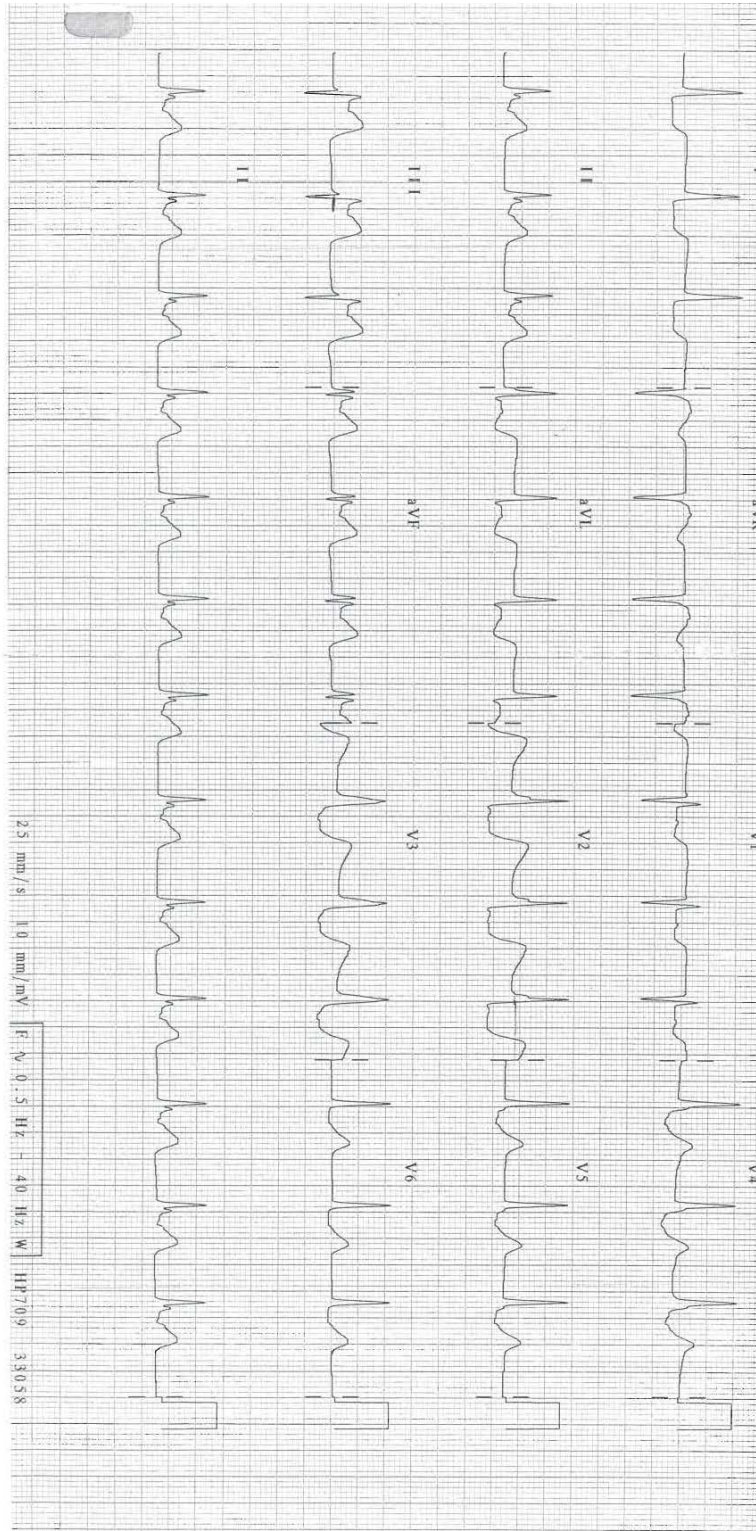
Hb	85	g/L	(115 - 135)
WBC	8.3	*10 ⁹ /L	(4.5 – 14.0)
Platelets	20	*10 ⁹ /L	(140 – 400)

Q22

A 55 year old woman has presented to your tertiary ED with severe central chest pain for the last 2 hours.

Her past medical history includes hypertension and hyperlipidaemia.

Her ECG is provided below.



Q23

A 35 year old man has re-presented with a painful left foot. He was seen 2 days prior in your ED after falling off a skateboard. He was discharged with a diagnosis of “ankle sprain” and advised to weight bear as tolerated.

His x-ray is provided below.



Q25

A 24 year old man has presented with a fever. He had chemotherapy 6 days ago for treatment of a testicular malignancy.

His full blood count is provided below.

Full blood count

Hb	90	g/L	(115 - 135)
WBC	0.2	*10 ⁹ /L	(4.5 – 14.0)
Platelets	65	*10 ⁹ /L	(140 – 400)