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University Hospital, Geelong
Emergency Medicine
Trial Fellowship Exam
Short Answer Questions (SAQ)
Week 17

DIRECTIONS TO CANDIDATE

1. Answer each question in the space provided in this question paper.
2. Do not write your name on this question paper.
3. Enter your examination number in the space below.
4. Cross out any errors completely.
5. Do not begin the exam until instructed to do so.
6. Do not take examination paper or materials from this room.
7. The booklet binder may be removed during the exam.

QUESTION & ANSWER
BOOKLET

Question 1 (18 marks)

- a. Complete the table, listing eight (8) ECG features that assist in distinguishing between supraventricular tachycardia with aberrancy and ventricular tachycardia. (8 marks)

	ECG feature	SVT	VT
1. (1 mark)			
2. (1 mark)			
3. (1 mark)			
4. (1 mark)			
5. (1 mark)			
6. (1 mark)			
7. (1 mark)			
8. (1 mark)			

Question 1 (Continued)

- b. List four (4) indications for the insertion of an Automated Implantable defibrillator. (4 marks)

1. _____

2. _____

3. _____

4. _____

Question 1 (Continued)

- c. State six (6) indications for Percutaneous Coronary Intervention in a patient with chest pain and a ventricular paced rhythm. (6 marks)

1. _____
2. _____
3. _____
4. _____
5. _____
6. _____

Question 2 (12 marks)

A 30 year old man has had his left leg run over by a car. He has isolated left lower limb injuries.

A left ankle X-ray is taken - refer to prop booklet page 2.

- a. List four (4) features of the abnormalities shown in this xray that suggest that this is a significant injury. (4 marks)

1. _____

2. _____

3. _____

4. _____

Question 2 (Continued)

There are open wounds over the medial border of foot his left ankle and his left foot is pale.

- b. What is the significance/implication of these findings? List five (5) and three (3) points respectively. (8 marks)

Findings	Significance/ implication
Open wound (5 marks)	1.
	2.
	3.
	4.
	5.
Foot is pale (3 marks)	1.
	2.
	3.

Question 3 (12 marks)

A 25 year old presents 9 weeks pregnant, by dates, with left iliac fossa pain.

a. List four (4) risk factors for the development of ectopic pregnancy. (4 marks)

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

b. List four (4) examination findings that would support the diagnosis of ectopic pregnancy. (4 marks)

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

Question 3 (Continued)

- c. List four (4) ultrasound findings that would support the diagnosis of ectopic pregnancy. (4 marks)

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

Question 4 (13 marks)

A 70 year old man presents to the emergency department complaining of painful feet.

A photo of his lower limbs is taken - see props booklet page 3.

- a. List four (4) abnormal findings shown in this image. For each finding, list one (1) likely underlying cause. Underlying causes should not be repeated for different findings. (8 marks)

Abnormal finding (4 marks)	Likely underlying cause (4 marks)
1.	
2.	
3.	
4.	

Question 4 (continued)

Further history and examination is not useful in the diagnostic process.

- b. List five (5) investigations that would of key importance in confirming a diagnosis/ses
(5 marks)

1. _____

2. _____

3. _____

4. _____

5. _____

Question 5 (11 marks)

A 32 year woman is brought to your emergency department by her friend who believes her to have taken a deliberate overdose earlier that morning. The patient denies taking any tablets.

His observations are:

BP	130/60	mmHg
RR	16	/min
O2 saturation	100%	10 L/min O ₂ via Hudson mask
GCS	15	

Her ECG is shown - refer to the props booklet page 4.

- a. What is the major abnormality shown in this ECG. (1 mark)

- b. List four (4) drugs that may account for this abnormality in overdose. (Each drug to be from a different drug class). (4 marks)

1. _____

2. _____

3. _____

4. _____

Question 5 (continued)

c. List six (6) non-medication causes that may account for these changes. (6 marks)

1. _____
2. _____
3. _____
4. _____
5. _____
6. _____

Question 6 (12 marks)

A 19 year old male football player presents to the emergency department complaining of abdominal pain following a tackle during a match 5 days previously.

His CT is shown - refer to the props booklet page 5.

a. List four (4) key positive or relevant negative findings in this CT scan. (4 marks)

1. _____

2. _____

3. _____

4. _____

b. List three (3) likely underlying conditions that may predispose to this injury for this patient. (3 marks)

1. _____

2. _____

3. _____

Question 6 (continued)

- c. What is meant by “hybrid resuscitation”? State six (5) points of explanation. (5 marks)

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

Question 7 (12 marks)

A 29 year old woman who is 30 weeks pregnant presents to the emergency department with a two day history of nausea and RUQ discomfort.

Her observations are:

GCS	15	
HR	95	/min
BP	150/100	mmHg
Temperature	36.5°C	
Oxygen saturation	97%	on room air

Initial investigations are taken- see props booklet page 6.

- a. State the diagnosis for her clinical state and blood results. (2 marks).

Analgesic and antiemetics are provided.

- b. List three (3) key treatment steps in the first 1 hour of your care. (3 marks)

1.

2.

3.

Question 7 (continued)

- c. List three (3) examination findings that would suggest imminent deterioration for this patient. (3 marks)

1. _____

2. _____

3. _____

- d. List four (4) key treatment steps that may be required if this condition was to deteriorate. (4 marks)

1. _____

2. _____

3. _____

4. _____

Question 8 (11 marks)

A 25 year old man presents with a four day history of increasing left eye pain, photophobia and decreased vision.

A photograph is taken – refer to the props booklet page 7.

- a. State the most important finding demonstrated in this image. (1 mark).

- b. List six (6) historical factors that are important in this case. (6 marks)

1.

2.

3.

4.

5.

6.

Question 8 continued

- c. List four (4) key management steps for this patient in the emergency department. (4 marks)

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

Question 9 (18 marks)

You are in a regional emergency department. An 11 year old boy sustains an isolated closed head injury after falling from a skateboard 10 hours ago. He has a GCS of 4 with decerebrate posturing.

A CT brain is taken – refer to the props booklet page 8.

a. State five (5) abnormal findings shown in this CT brain. (5 marks)

1. _____

2. _____

3. _____

4. _____

5. _____

b. List five (5) management steps, that may be performed in the ED, that may be utilised to optimise his Intracerebral pressure. (5 marks)

1. _____

2. _____

3. _____

4. _____

5. _____

Question 9 (continued)

c. List your initial settings for his ventilation. (4 marks)

Tidal volume (1 mark)	
Respiratory rate (1 mark)	
I:E (1 mark)	
PEEP (1 mark)	

Question 9 (continued)

d. List four (4) key pieces of information to give to the patient's parent. (4 marks)

1. _____

2. _____

3. _____

4. _____

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PROP BOOKLET

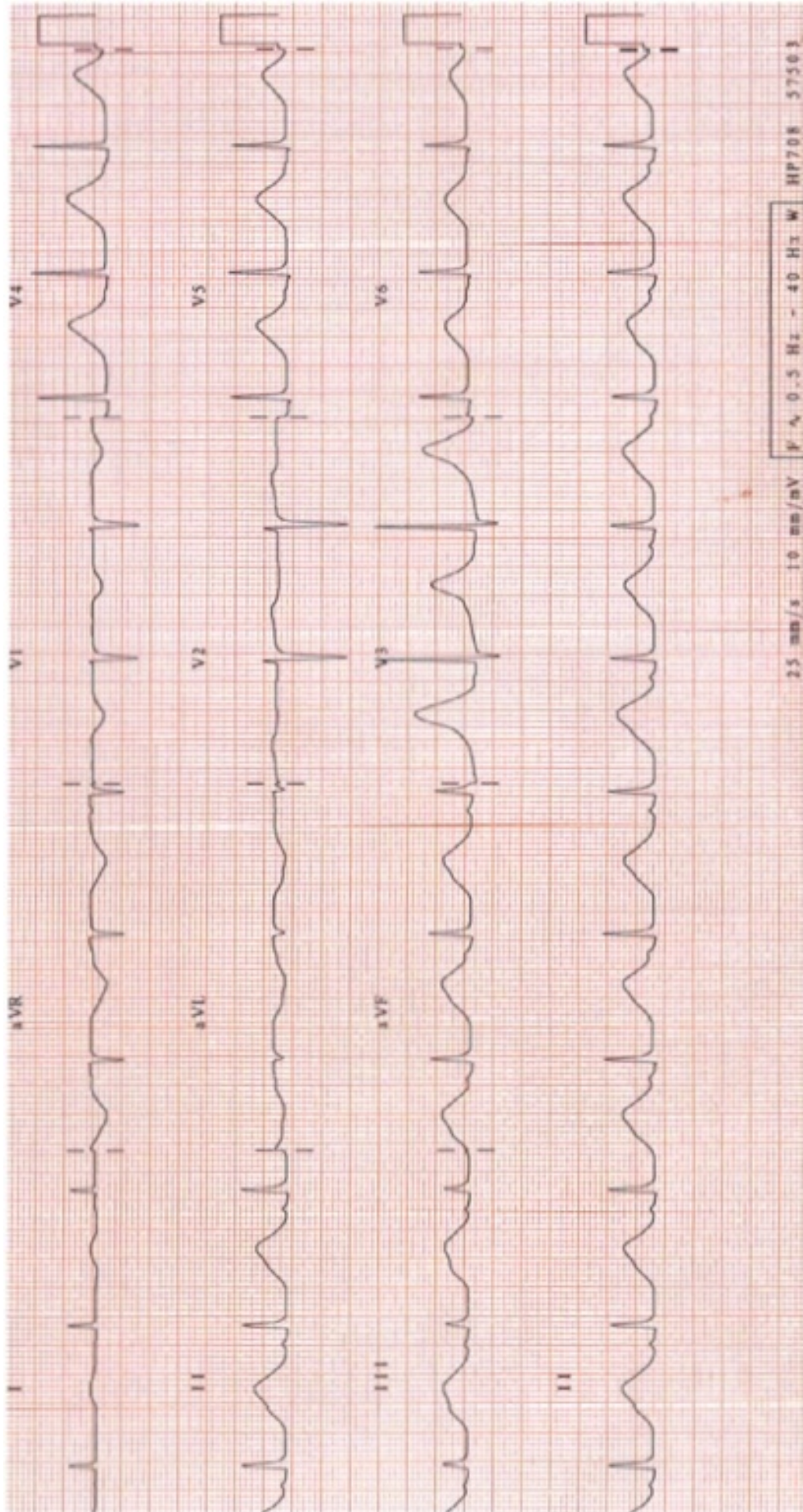
Question 2



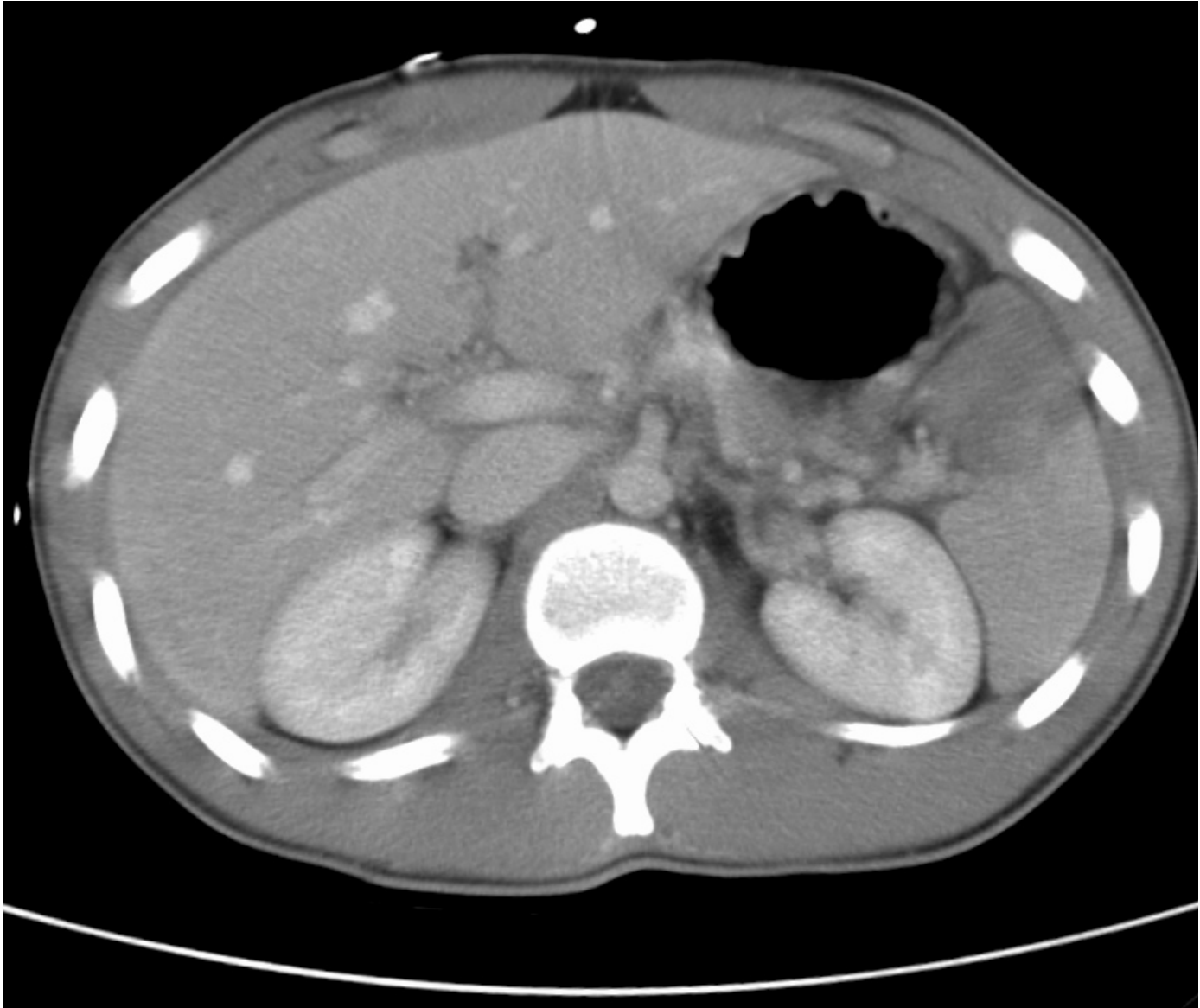
Question 4



Question 5



Question 6



Question 7

Laboratory results

			Reference Range
Sodium	139	mmol/L	(135-145)
Potassium	4.1	mmol/L	(3.5-5.1)
Chloride	105	mmol/L	(99-109)
Bicarbonate	21	mmol/L	(21-32)
Urea	8.0	mmol/L	(2.5-6.7)
Creatinine	48	micromol/L	(30-120)
Glucose	4.3	mmol/L	(3.0-6.0)
Total protein	60	g/L	(60-80)
Albumin	35	g/L	(35-50)
Bilirubin	33	micromol/L	(5-17)
ALP	225	IU/L	(40-120)
AST	5418	IU/L	(10-36)
Hb	11.4	g/dL	(11.5-14.5)
WCC	6.7	$10^9/L$	(3.6-10.5)
Platelets	72	$10^{12}/L$	(150-400)
INR	1.4		(1.0-1.2)
APTT	28	secs	(24-35)

Question 8



Question 9

