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**University Hospital, Geelong
Emergency Medicine
Trial Fellowship Exam
Short Answer Questions (SAQ)
Week 7**

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 (16 marks) 9 minutes

A 27 year old previously well woman presents with a headache for the last two days.

The patient is noted to have a temperature of 39°C. Following your clinical assessment, you decide that a lumbar puncture is indicated.

- a. List five (5) contraindications to performing a lumbar before performing a CT Brain. (5 marks)

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

Question 1 (continued)

**A lumbar puncture is performed. Refer to the props booklet for CSF results-
Page 1.**

b. State two (2) points of interpretation for the Red blood cell count. (2 marks)

1. _____

2. _____

c. List five (5) likely differential diagnoses for these results. (5 marks)

1. _____

2. _____

3. _____

4. _____

5. _____

Question 1 (continued)

d. List two (2) medications that you would commence for the specific treatment of this patient. Provide one (1) justification for each choice. (4 marks)

	Medication (2 marks)	Justification (2 marks)
1.		
2.		

Question 2 (13 marks) 6 minutes

A 60 year old male is brought to the Emergency Department with confusion, fever and a painful left leg.

A photograph of his left leg is taken- refer to the props booklet- page 2.

- a. State the most likely diagnosis. (1 mark)
-

- b. List three (3) investigations that you would perform in this case. Provide one (1) justification for each choice. (6 marks)

	Investigation (3 marks)	Justification (3 marks)
1.		
2.		
3.		

Question 2 (continued)

Analgesia and fluids are provided.

- c. State three (3) treatments that you would consider for this patient. Provide one (1) justification for each choice. (6 marks)

	Treatment (3 marks)	Justification (3 marks)
1.		
2.		
3.		

Question 3 (12 marks) 6 minutes

A 45 year old female presents with a sudden onset of isolated left facial droop.

- a. List six (6) differential diagnosis for this presentation (each to be from a different pathological process). (6 marks)

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

Question 3 (continued)

You assess the patient to have a lower motor neurone, isolated, CN VII palsy.

- b. List three (3) medications that you may prescribe for this condition. Provide one (1) justification for each choice. (6 marks)

	Medication (3 marks)	Justification (3 marks)
1.		
2.		
3.		

Question 4 (15 marks) 6 minutes

A 4 month old boy presents with a suspected non accidental injury.

- a. List four (4) historical findings that would support your suspicion in this patient. (4 marks)

1. _____

2. _____

3. _____

4. _____

- b. List four (4) examination findings that would support your suspicion in this patient. (4 marks)

1. _____

2. _____

3. _____

4. _____

Question 4 (continued)

- c. List four (4) radiological findings that would support your suspicion in this patient. (4 marks)

1. _____

2. _____

3. _____

4. _____

Question 5 (12 marks) 6 minutes

A 35 year old presents following a stated overdose.

An ECG taken on arrival - refer to the props booklet- page 3.

a. State five (5) abnormalities shown in this ECG. (5 marks)

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

b. List four (4) possible causative drugs (each must be from a different drug type). (4 marks)

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

Question 5 (continued)

The patient experiences a ventricular fibrillation arrest prior to the initiation of any care.

- c. State two (2) modifications for this patient to your standard management of a ventricular fibrillation arrest. State one (1) justification for each modification. (4 marks)

	Modification (2 marks)	Justification (2 marks)
1.		
2.		

Question 6 (12 marks) 6 minutes

An 18 year old male presents with chest pain.

A CXR is taken- refer to the props booklet- page 4.

a. State two (2) abnormal findings shown in this xray. (2 marks)

1. _____

2. _____

Question 6 (continued)

- b. State four (4) likely precipitating causes. For each cause, state the definitive management of the condition. (8 marks)

	Precipitating cause (4 marks)	Definitive management options (4 marks)
1.		
2.		
3.		
4.		

Soon after this xray is taken, the patient becomes distressed and is noted to have a BP of 75/40 with HR 170 /min.

- c. State two (2) immediate steps in the treatment of this patient. (2 marks)

1. _____

2. _____

Question 7 (11 marks) 6 minutes

A 64 year old female presents to the Emergency Department, two days after minor trauma to her right foot.

A photo of her foot is taken- refer to the props booklet- page 5.

- a. What diagnosis is suggested by this presentation and clinical photograph? (1 mark)

- b. List five (5) underlying diseases that may be associated with this condition. (5 marks)

1. _____

2. _____

3. _____

4. _____

5. _____

Question 7 (continued)

c. List five (5) steps in the management of this condition. (5 marks)

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

Question 8 (12 marks) 6 minutes

It is 930 am on a Sunday morning. You receive a verbal complaint from an ED nurse who reports that an ED registrar was behaving erratically and was been abusive to nursing staff on last nights' night shift. He had previously performed without concern over a 2 year period in this department. The doctor has already departed the department.

a. List six (6) likely causes for this complaint. (6 marks)

1. _____

2. _____

3. _____

4. _____

5. _____

6. _____

Question 8 (continued)

b. Under what two (2) circumstances is mandatory reporting of practitioner impairment 'notable conduct' required by the Medical Board? (2 marks)

1. _____

2. _____

c. After undertaking a preliminary assessment of a notification, what further options does the Medical Board have if it decides that a Medical practitioner is impaired? List four (4) options. (4 marks)

1. _____

2. _____

3. _____

4. _____

Question 9 (22 marks) 9 minutes

- a. List three (3) causes of acute fulminant hepatic failure in a previously well patient (each to be a different pathological aetiology). (3 marks)

1. _____

2. _____

3. _____

A 50 year old male presents with suspected decompensated chronic liver failure.

- b. List five (5) likely precipitants for this decompensation. (5 marks)

1. _____

2. _____

3. _____

4. _____

5. _____

Question 9 (continued)

- c. Complete the table demonstrating two (2) of the neurological features of each of the different stages of hepatic encephalopathy. (8 marks)

Grade	Neurological feature (8 marks)
1.	
2.	
3.	
4.	

Question 9 (continued)

The patient is noted to have ascites.

- d. List three (3) potential benefits of performing abdominal paracentesis for this patient. (3 marks)

1. _____

2. _____

3. _____

- v) List three (3) common complications of performing abdominal paracentesis in a patient with chronic liver disease. (3 marks)

1. _____

2. _____

3. _____

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PROP BOOKLET

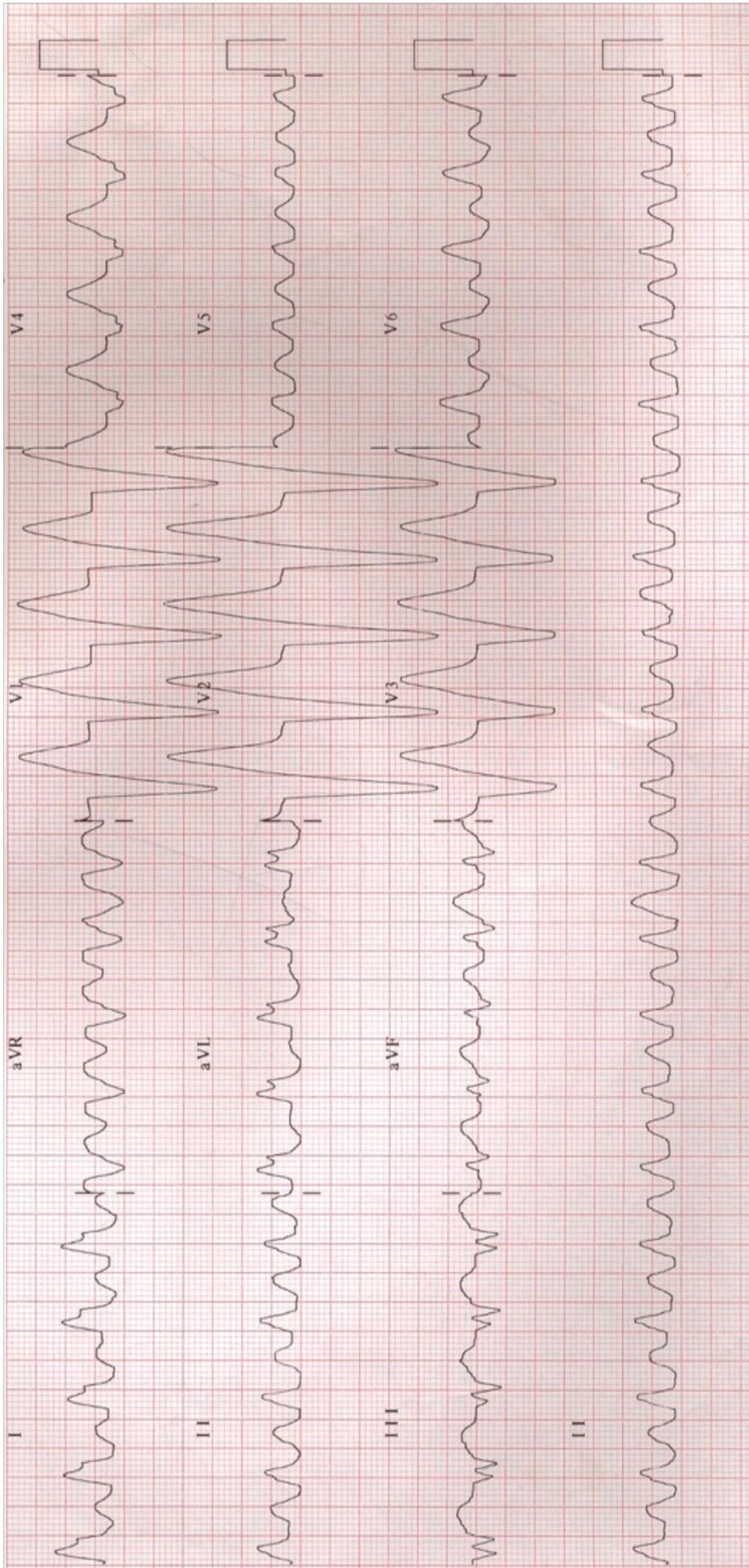
Question 1

			Reference Range
No. of tubes	4		
Appearance	Clear		
Supernatant	Colourless		
Volume	3.5	mL	
In tube 3:			
WBC			
Neutrophils	20	$\times 10^6/L$	(<5)
Lymphocytes	111	$\times 10^6/L$	(<5)
RBC	8	$\times 10^6/L$	(<5)
Glucose	3.0	mmol/L	(2.8–4.0)
Protein	750	mg/L	(150–500)
Gram stain	No organisms seen.		

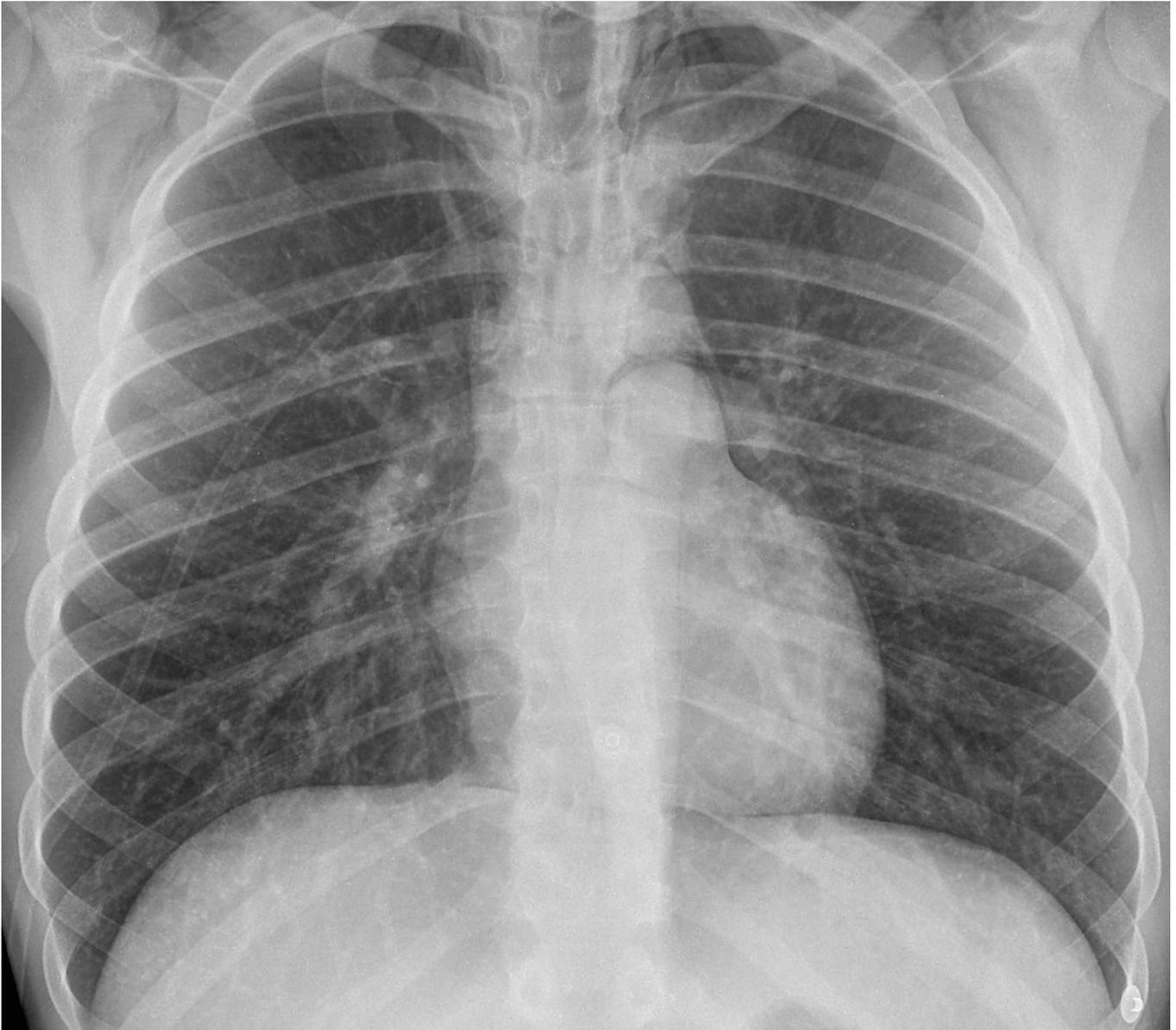
Question 2



Question 5



Question 6



Question 7

