Candidate No:	
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The Hong Kong College of Anaesthesiologists Final Fellowship Examinations Paper II – Investigations (1-5) 23 March 2023 (Thursday)

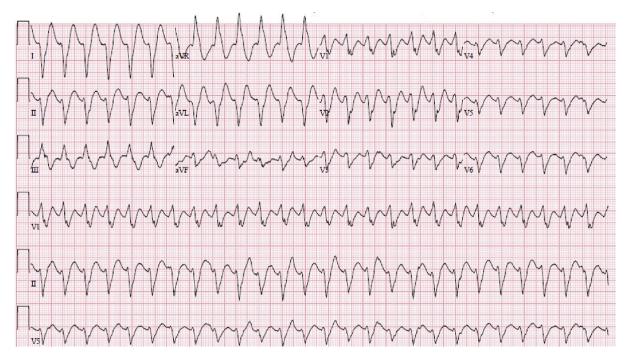
12:10 - 12:20 hours

Instructions:

- a. This is a <u>question-answer book</u>. Please write your answers in the space provided.
- b. Write your candidate number on the first page of the answer book.
- c. Use ink or ball-point pen.
- d. There are 5 questions in this paper, each with multiple parts.
- e. Answer ALL questions. They are worth equal marks.
- f. For questions with multiple parts, allocation of marks is indicated in the brackets.

Question 1 (8 marks)

A 39-year-old lady presents with palpitation, below is her ECG:



a) What is your diagnosis? (1 mark)

List <u>three</u> ECG features to support your answer. (3 marks)

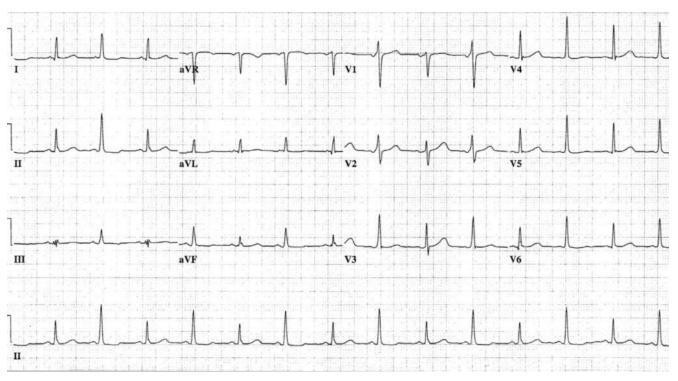
b) She is alert, with no other discomfort and maintaining a blood pressure of 120/55mmHg. List one management strategy that is appropriate at this time? (1 mark)

c)	List <u>three</u> investigations you would order to look for the underlying causes. (3 marks)				

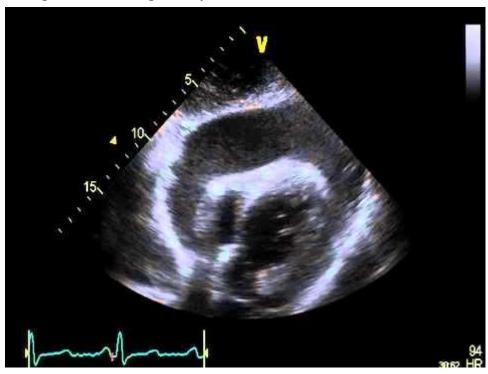
Question 2 (8 marks)

a)

A 45-year-old woman presents to the emergency room with chest discomfort and shortness of breath over the past few hours. She has a past medical history of systemic lupus erythematosus. Physical examinations reveal hypotension, muffled heart sounds, distended jugular veins.



An urgent Echocardiogram is performed:



- b) What is the diagnosis? (1 mark)
- c) Name 4 Echo features that suggests presence of haemodynamic instability (4 marks)

Question 3 (8 marks)

A 30-year-old nulliparous who has a vaginal delivery 6 hours ago is referred for generalized tonic-clonic seizure. In her history oxytocin infusion has been used to induce labour and continued after delivery to prevent postpartum bleeding.

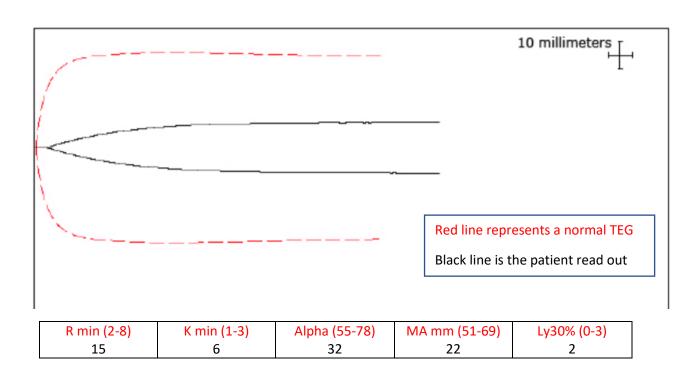
Her latest laboratory tests are as below:

Blood test		Urine test	
Na	119 mmol/l	Urine osmolality	407 mOsm/kg
K	4.5 mmol/l	Urine Na	51 mmol/l
Urea	5.5 mmol/l		
Creatinine	40 umol/l		
Glucose	6.5 mmol/l		
Calcium	2.24 mmol/l		
Plasma osmolality	204 mOsm/kg		

<u>e</u> possible causes of seizure in this patient? (3 marks)
e the abnormalities in her laboratory test? Explain your answer and e the most likely cause. (3 marks)
ure stopped and she regained consciousness. What are the <u>two</u> treates that should be commenced at this time? (2 marks)
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Question 4 (8 marks)

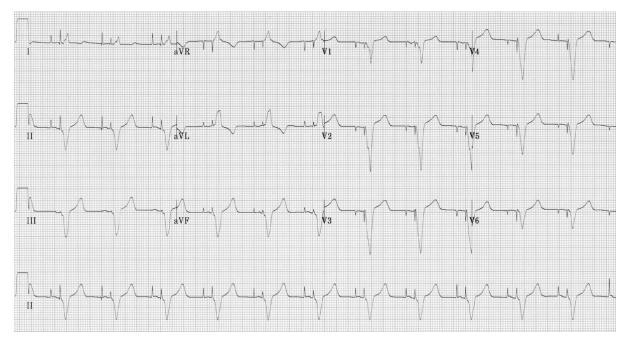
A 17-year-old male arrives after a motor vehicle accident. CT demonstrates liver laceration and open book pelvic fracture. He is intubated and his most recent vitals: BP 90/40mmHg, P125/min. Below is his thromboelastogram (TEG).



c)	Below is his arterial blood gas at FiO2 45%. How will you manage this? (4 marks) pH 7.1 pO2 60mmHg pCO2 50mHg BE -10				

Question 5 (8 marks)

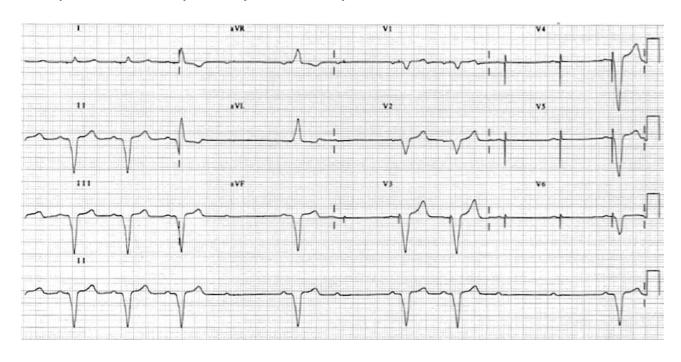
A 55-year-old male travelling from abroad developed acute appendicitis and booked for emergency laparoscopic appendectomy. He is a poor historian with no medical history obtainable. Below is his preoperative ECG.



a) What are your interpretations? (2 marks)

b) What are the possible indications for your answer to question a? (2 marks)

Postoperative he developed bradycardia with repeated ECG as below.



c)	What are the abnormalities? (2 marks)
d)	What are the possible causes for the above abnormalities. (2 marks)

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