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## **BOOK THREE**

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## QUESTION 19 (21 marks) – DOUBLE QUESTION

A 20 year old male is brought to your ED with confusion and hyperthermia follo	wing a
marathon. You think he has exertion related heat stroke.	

i.	What are the management priorities in this situation (5 marks)
ii.	What investigations would you perform and why (4 marks)
11.	What investigations would you perform and why (4 marks)
	eat illness affects some groups more than others and non-exertional heat stroke is more ommon during heat waves.
iii.	Define heat wave (2 marks)

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٧.	List 4 risk factors for class	ssic non-exertional heat stroke (4 marks)
V.	<u> </u>	tions from different classes that increase the risk of heat stroke cological reason(s) for the effect for each (6 marks)
	Medication	Explanation

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## QUESTION 20 (10 marks)

A 20 year old male presents with a 3 day history of lethargy and generalised malaise. He is confused and looks unwell. The following venous blood tests are obtained.

рН	7.08		
pCO2	20	mmHg	(35-45)
HCO3	16	mmol/L	(22-28)
BE	-22	mmol/L	(-3-3)
Lactate	9	mmol/L	(<2.2)
Glucose	44	mmol/L	(3.9-5.8)
K	2.7	mmol/L	(3.5-4.2)
K Na	2.7 160	mmol/L mmol/L	(3.5-4.2) (135-145)
		•	. ,
Na	160	mmol/L	(135-145)
Na	160	mmol/L	(135-145)
Na Cl	160 124	mmol/L mmol/L	(135-145) (95-110)

i.	Interpret the above results, and show any relevant calculations (5 marks)
ii.	Outline your immediate management priorities (5 marks)

Flancastal Inc. doc.	Clinian Effect
ii. Complete the following table (4 marks	)
i. List 3 details that will assist your risk st	cratification (3 marks)
	other with abdominal pain and vomiting. Mum is see of her iron tablets. She is sure that there are
QUESTION 21 (14 marks)	
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Elemental Iron dose	Clinical Effect
<20mg/kg	
20 C0mg/l/g	
20-60mg/kg	
>60-120mg/kg	
. 420 //	
>120mg/kg	

ii.	List 4 investigations with a rationale for each that you would perform to determine the severity of toxicity (4 marks)
V.	List 3 options for decontamination in this child (3 marks)

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QUESTION 22 (12 marks)	
A woman in late pregnancy is	s brought to you following a high speed MVA.
i. List three changes in resp	oiratory physiology that occur with pregnancy [3 marks]
ii. Complete the table regar	ding cardiotocographic (CTG) monitoring in trauma (4 marks)
Purpose of CTG monitoring	
Gestation (weeks) from which CTG monitoring is useful	
Recommended duration of CTG monitoring in trauma	
Three CTG findings suggesting foetal distress	
iii. Describe the process of p	eri-mortem caesarean section [5 marks]

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QL	JESTION 23	3 (14 marks)
	=	Id woman is brought to your tertiary ED with sudden severe chest pain and transient loss of consciousness.
Vit	al signs	BP 90/- mmHg HR 50 bpm GCS 12
i.	List 4 pot	entially life threatening diagnoses (4 marks)
ii.	What are	the three most useful diagnostic tests in this setting (3 marks)
iii.		he major abnormality on this bedside sub-sternal ultrasound image and what is clinical diagnosis (2 marks)
AN	ULTRASC	OUND IS SHOWN IN THE PROPS BOOKLET, PAGE 12

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iv.	What two treatment approaches are available (2 marks)
v.	The family arrives with an Advance Care Directive stating the patient did not want any lifesaving surgery. Prescribe the PRN meds you would chart for the ward (3 marks)

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Q	UESTION 24 (13 marks)
р	ou are at a peripheral hospital with no maternity facilities when a 16 year old obese girl resents in the second stage of labour. Up until this presentation she was unaware that she was pregnant.
i.	List 5 steps you would take to prepare for her deliver (5 marks)
	Vithin minutes of arrival the baby's head is delivered. However, on the next contraction you re unable to deliver the shoulders despite gentle axial traction.
ii.	Name this condition and in what period of time should the baby be delivered to avoid serious foetal hypoxia (2 marks)
iii.	Describe 3 manoeuvres that may enable the safe delivery of the child (6 marks)

QUESTION 2	5 (18 ma	arks)
work of brea	thing ov	esents to your urban ED with a runny nose, mild cough and increased er the past 2 days. The child had several episodes where her breathing his resolved with gentle stimulation. She has not fed for 8 hours.
Vital signs	HR CR RR	36.6 deg C 190 bpm 3 sec 70/min 93% RA
i. List 4 diff	ferential	diagnoses (4 marks)
		erpret the CXR (4 marks)  DWN IN THE PROPS BOOKLET, PAGE 13

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iii.	Outline your management steps (4	4 marks)
_		
_		
iv.	You prepare for intubation. Comp	lete the following table (6 marks)
	Weight	4kg
	ETT size	
	ETT insertion depth	
	Blade type and size	
	Induction agent and dose	
	Paralytic agent and dose	

Ventilator settings (TV, RR, Fi02)

## QUESTION 26 (14 marks)

A 50 y	ear old female	e presents w	ith chronic	lithium	poisoning.	Investigations	reveal a	lithium
level	of 3.1 mmol/L,	and serum	creatinine 1	180 micr	omol/L.			

i.	What is the volume of distribution of lithium (1 mark)
ii.	List 6 possible signs or symptoms of chronic lithium poisoning (6 marks)
iii.	Outline the principles of management in this patient (5 marks)
iv.	List 2 major differences between ACUTE and CHRONIC lithium poisoning (2 marks)

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QUESTION 27 (16 marks)
A 68 year old male sustains blunt trauma to his right eye from a golf ball.
i. Describe three abnormalities in the image (3 marks)
A CLINICAL IMAGE IS SHOWN IN THE PROPS BOOKLET, PAGE 14
<ul> <li>List 5 features on assessment that would suggest orbital compartment syndrome (5 marks)</li> </ul>

iii.	Describe the steps involved in a lateral canthotomy/cantholysis (8 marks)

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