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INITIATION ROADBLOCK.

Question paper.

Instructions to candidates

- 1. This book contains 10 short answer questions.
- 2. You have 1 hour to complete the exam.
- 3. Each 2 page question is designed to be completed in the same amount of time, irrespective of the number of marks assigned
- 4. Each 2 page question will be scaled to contribute equally to the examination outcome,
- 5. Answer in the space provided within this booklet.
- 6. Write in blue or black pen.
- 7. Where referenced refer to the supplementary clinical information booklet for clinical information.
- 8. Where a number of answers are requested only that number will be marked.

Question 1.

A 58 year old man presents to your department by ambulance from a construction site after being hit in the chest and face by a large concrete block swinging from a pulley. He has sustained no other injuries.

His vital signs on arrival are:			
HR	115	/min	
ВР	99/66	mmHg	
RR	28	/min	
O2 sats	95%	6L via mask	
GCS	7		
i. (4 marks)			
Give 4 signs on	chest e	xamination that may indicate the possibility of a pneumothorax. (4 marks)	
		18/11	
ii. (4 marks)			
Question 2.			
		y is taken just after arrival and is shown on page 2 of the supplementary live 2 major abnormalities from the film and the underlying diagnosis	

Question 1.

iii. (2 marks)

After the patient's xray returns he suffers increasing respiratory distress, de-saturates and has a cardiac arrest. What two actions would you immediately undertake?
,
iv. (1 mark)
After your actions above the patient regains immediate output but remains hypotensive with a systolic BP of 78mmHg. What volume resuscitation will you administer to this patient?
v. (5 marks)
Give 5 endpoints you would use to judge the efficacy of your volume resuscitation.
- A
40,

Question 2.

A 35 year old motor bike rider is brought in by ambulance after a collision with a car. The ambulance report multiple injuries on scene. The accident occurred 500m from the entry to the hospital, so the ambulance have applied a c-collar, inserted an IVC and brought the patient to your department with no other interventions undertaken.

The patient's vital signs on arrival are:				
HR BP RR O2 sats GCS	145 90/72 29 98% 6	/min mmHg /min 6L via mask		
i. (2 marks)				
Which induc	Which induction agent will you use to intubate this patient? Justify your choice.			
18				
	,,(5)			
		"10"		

QUESTION 2 CONTINUES OVER THE PAGE

ii (20 marks)

Using the table below, give 2 paralytic agents you would consider using, the dose of each agent, and two advantages and disadvantages of each.

AGENT	1.	2.
DOSE		
DOSE		
ADVANTAGES	1.	1.
	2.	2.
DISADVANTAGES	1.	1.
	2.	2.
	60),	

Question 3.

A 19 year old man presents with the ambulance after being assaulted with a broken glass at a nightclub.

On arrival his vital signs are:

HR	105	/min
BP	99/62	/min
RR	16	/min
Sats	98%	RA
Т	36.3	°C

A clinical image of the patient's wound is shown on page 3 of the supplementary information booklet.

i. (10 marks)

Using the table below list five anatomic structures which may be injured, and give a clinical feature or complication for each that would indicate damage.

STRUCTURE	CLINICAL FEATURE
	2101
40	

. (4 marks)
s imaging appropriate in THIS patient and why?
i. (4 marks)
ist 2 important imaging studies that you could perform and the indication for each.
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Question 4.

A 55 year old man presents 5 days after a colonoscopy with left iliac fossa pain. During his colonoscopy several polyps were removed, and significant diverticular disease was noted to the descending and sigmoid colon. He has a history of COPD, and uses nebulized bronchodilators at home.

His vit	al signs are:	
HR	90	/min
BP	120/80 mmHg	
RR	22	/min
Sats	98%	RA
Т	38.2	°C
i.(3 m	arks)	
		aken by the resident, and results are shown on page 4 of the ation booklet. What are the major acid-base disturbances present?
		73/
		281
ii. (2 n	narks)	
Provid	le 2 derived value	es to support your answer.
		.104
		col
/4		
111. (4 1	marks)	
List 4	differentials for t	his patient's presentation.

Question 4.

iv. (4 marks)			
A CT scan of the patient's abdomen is shown on page 5 of the supplementary clinical information booklet. What is the major abnormality and what diagnosis does it imply?			
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Question 5.

A 58 year old man presents with a history of dizziness and feeling lightheaded. He has a history of hypertension and osteoarthritis.

His vital signs a	are:		
	HR	77	/min
	BP	115/70	mmHg
	RR	17	/min
	Sats	98%	RA
	T	37.1	°C
	GCS	15	
i. (4 marks)			
			lementary clinical information booklet. List 3 abnormalities
on the ECG and	d give your diagn	IOSIS	
			C_{O}
			73,
			8
ii. (6 marks)			5
List 3 potential	causes of these	changes	s and give an example of each.
	16	-	
iii. (2 marks)			
Give 3 pharma hypotensive.	cologic therapies	s you co	uld institute if this patient became bradycardic and

iv. (5 marks)

In the event of non responsiveness to drugs, describe your procedure for transthoracic pacing.
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Question 6.

A 66 year old woman presents to the department with severe right upper quadrant pain of 36 hours duration. She has a prior history of biliary colic and is awaiting elective cholecystectomy.

Her vi	tal signs are	::	
HR BP	102 99/59	/min mmHg	
RR	27	/min	
Sats	99%	RA	
Т	39.6	°C	
	EC and LFT _I		the laboratory and is shown on page 7 of the supplementary
i. (3 m	arks)		
What	are the maj	or abnormalities, and	d what do they suggest?
ii. (2 r	narks)	i all	
clinica	l information		y and the film is reproduced on page 8 of the supplementary he major abnormality and what is the likely diagnosis in ar gathered?

iii. (6 marks)

List 5 important management interventions you will institute

Question 7.

A 36 year old male presents to the emergency department with a suspected overdose of an unknown tablet 2 hours previously.

Her vital signs are:			
	HR BP RR Sats T	112 118/60 27 100% 39	/min D mmHg /min RA °C
His ECG shows sinus rh	ythm.		
i. (6 marks)			
The patient's venous g	as is reproduced	d on pag	ge 9 of the supplementary information booklet.
Describe and interpret your answers.	the major abno	rmalitie	es. Provide calculations where relevant to support
			10,
		• .	0,
		10	
		(3)	
	110,	·	
	160,		
ii. (3 marks)			
What active treatment	apart from hae	modialy	ysis, would you commence on this patient?

Question 7.

iii. (4 marks)	
Give 4 indications for haemodialysis in this patient.	
iv. (4 marks)	
Outline your criteria for medically clearing this patient for discharge.	
1.	
2.	
3.	
4.	

Question 8.

A 15 month old girl is brought to your emergency department by her nanny with burns, only to the areas shown in the photograph on page 9 of the supplementary information booklet. The history given is that the toddler pulled a cup of hot coffee from a bench onto herself.

Question 8.

iii. (5 marks)					
List 5 characteristics of burns that mandate transport to a burns centre.					
60)					

Question 9.

A 26 year old woman is brought in by ambulance following drinking an unknown quantity of
domestic bleach as a suicide attempt. She denies taking any tablets. Her complaints are nausea
and pain on swallowing.

HR	115	/min
BP	110/63	/min
RR	22	/min
Sats	99%	RA
Т	38	°C

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I. (_	marks)	۱
	_	HIIGHKS	ı

List 5 features you oesophageal burns	would seek in history or examination to evaluate the severity of potential .
ii. (6 marks)	(S)
List 6 investigations	s you would perform and the indication for each.
1.	
2.	
3.	
4.	

Question 9.

iii. (7 marks) Comment on the role and use of the following in this patient. Mouth rinse: **Activated charcoal: Stomach aspiration: Neutralising solution:** Intubation: **Broad spectrum Abx Corticosteroids:** iv. (2 marks) Briefly outline your discharge criteria for any patient presenting to the ED following corrosive ingestion.

Question 10.

A 78 year old woman presents after (?injury) with acute neck pain and difficulty moving her arms and legs. She has severe respiratory distress and is being bagged by the ambulance.

A decision is made to perform a rapid sequence intubation. Following induction and paralysis, the patient's airway obstructs and she becomes unable to be bagged. A view of the cords is unobtainable on laryngoscopy due to upper airway haematoma obstructing the view.

The patient has desaturated to 82% and you are not able to ventilate via bag valve mask.

i. (8 marks)						
List 4 approaches disadvantage of ea	s you might take ach.	to ventilate	e the patie	ent with	either an	advantage or
				2		
				~ <i>O</i>),		
			<i>A</i>	•		
			10)			
		26				
		1/16				
ii. (3 marks)		(5)				
	atient's c-spine is tal et. Describe the maj			n on pag	e 11 of the	supplementary
iii. (3 marks)						
List 3 clinically imp	ortant complication	ns of this inju	ry.			

iii. (3 marks)

The patient's CT scans (pelvis, abdomen, chest & head) show no other injuries. There are no long bone fractures evident on secondary survey.

bone mactu	ies evident	t on secondary survey.	
The patient	's vital sign	s on returning from CT are:	
HR BP RR O2 sats	41 72/42 16 100%	/min mmHg /min (ventilated) FiO2 tube 40%	
What is the	diagnosis?		
iv. (2 marks		ou will apply to treat this issue.	
		1,10	
		(6)	
		1019	
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END OF EXAMINATION

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