



THE COLLEGES OF MEDICINE OF SOUTH AFRICA

Incorporated Association not for gain Reg No 1955/000003/08

Final Examination for the Fellowship of the College of Anaesthetists of South Africa

24 July 2018



Paper 2 (3 hours)

All questions are to be answered in the space provided.

CANDIDATE NUMBER.....

Questions 1 - 3

There are 7 books for this examination, please ensure that the 7 books are handed over to the invigilator for marking.

Candidate number:

You are obtaining consent for epidural analgesia from a parturient in labour. Define and quantify 5 of the most pertinent risks of this procedure.					

[10]

An adverse incident of oxygen cylinder injury to a patient in the MRI scanner has occurred in hospital. The patient was transported from the intensive care unit. Explain the different ways the incident should be prevented in future.	
	
	[10]

PTO/Page 4 Question 3...

Candidate number:

A 50-year-old patient who is post intracranial aneurysm surgery suffers a cardiac arrest whilst in the MRI scanner.					
ist 10 steps you would take to manage the patient.					

[10]

Candidate number:



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Questions 4 - 6

There are 7 books for this examination, please ensure that the 7 books are handed over to the invigilator for marking.

A junior trainee reports to you just before the operating lists are about to start, that	t she thinks th	nat
the specialist allocated to supervise her is under the influence of alcohol or drugs.		

	considering how	you would a	pprodorr and	10000.			
٠							
		 					
	Briefly describe h			this problem	n, balancing al	II the needs	and the i
				this problem	n, balancing al	II the needs	and the r
				this problem	n, balancing al	II the needs	and the r
				this problem	n, balancing al	I the needs	and the r
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Candidate number: _____

PTO/Page 3 Question 5...

Reg		g the term "Clinical Governance" ne, or explain briefly, your understanding of the term "clinical governance".	(4)
u,	Don	no, or explain briony, your understanding or the term official governance.	(')
b)	roles	ng your understanding, give at least two (2) examples of the different clinical governa is and responsibilities that each of the following categories of staff have when provide for a full-day operating list.	
	i)	Registered scrub/theatre nurse responsible for the list.	
	1)	registered scrub/theatre hurse responsible for the list.	
	ii)	Anaesthetic registrar responsible for anaesthesia care.	
	iii)	Clinical head anaesthesiologist for the department who is not in theatre that day.	
	,	, , , , , , , , , , , , , , , , , , ,	
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PTO/Page 4 Question 6...

Candidate number: _____

A 24-year-old male patient is admitted with a blunt traumatic brain injury. He is assessed by medical staff to open his eyes to sternal pressure alone, withdraw his arm to painful stimulus and to verbalise without making sense.

a)	List the three elements assessed and scored (and indicate the range of scores possible each element) in the Glasgow Coma scale.				
	What does the patient described above score on the Glasgow Coma Scale (GCS)?	(4)			
b)	What is the utility of the GCS?	(2)			
The	e Apgar score is another commonly used scoring system.				
c)	What are the elements of the Apgar score?	(2)			
d)	Are the Apgar score and the GCS useful prognosticators of outcome? Explain your an	swer.			
		(2)			
		F46			
		[10]			



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Questions 7 - 9

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Candidate number: _____

ern.	
List different methods of preconditioning. Define the time-window in preconditioning.	(
Explain the term post-conditioning.	(2
Explain cold renal perfusion.	(2
What are the 3 most valuable steps to improve renal outcome?	(3
	[10

PTO/Page 3 Question 8...

A single scrub sister was assigned to scrub for an orthopaedic list with 8 patients booked on the slate. The last patient of the day presented for an ankle procedure. The patient received a general anaesthetic followed by a left popliteal block. A tourniquet was applied to the left leg. During the operation the surgeon failed to find the bony deformity on the left hand side and re-checked his notes in the bed letter. He then announced that it was not the left but actually the right ankle which required the operation.

What are the practical challenges in implementing the WHO checklist that could have prevented the above complication?

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PTO/Page 4 Question 9...

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Questions 10 - 12

There are 7 books for this examination, please ensure that the 7 books are handed over to the invigilator for marking.

Candidate number: ___

A 17-year-old girl collapses during a hockey match. She is transported to hospital where she is found to have a severe headache and neck stiffness accompanied by cranial nerve VII palsy. An urgent CT scan reveals a cerebral aneurysm with a subarachnoid haemorrhage (SAH). The neurosurgeons wish to proceed with coiling of the aneurysm as soon as possible.

What systemic complications may occur following SAH that yo operative visit?	d wish to assess at your pre (6
What do you expect to see on transcranial doppler?	(1
What is the role of calcium channel blockers in this patient?	(3
	``
	[10

Describe the stepwise process for rational antibiotic prescribing.					

PTO/Page 4 Question 12...

[10]

Candidate number:

A 32-year-old male is admitted to your intensive care unit. He has been the victim of a community assault. Clinical examination reveals evidence of extensive beatings with a sjambok (leather whip). His urine is dark brown in colour and his urine output is reduced.

What is the diagnosis?	
Describe the pathophysiology of this condition.	
Outline principles of management for this condition.	
Outline principles of management for this condition.	
Outline principles of management for this condition.	
Outline principles of management for this condition.	
Outline principles of management for this condition.	

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Questions 13 - 15

There are 7 books for this examination, please ensure that the 7 books are handed over to the invigilator for marking.

Candidate number: _____

Complete the following table, comparing the differences between Narrative Reviews and Systematic Reviews

Elements of review	Narrative Review	Systematic Review
Scope of clinical or research question		
Protocol		
Source of evidence and search strategy		
Evaluation of evidence		
Synthesis of evidence		

[10]

Candidate number: _____

neral anaesthesia for middle	 '-			durin

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Briefly discuss the typically present.	potential	causes of	airway	obstruction	after a	a thyroide	ctomy ar	nd how	they

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All questions are to be answered in the space provided
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CANDIDATE	NUMBER
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Questions 16 - 17

There are 7 books for this examination, please ensure that the 7 books are handed over to the invigilator for marking.

Candidate number: _____

What are the components of "total pain", often referred to as "the complex and interrela dimensions of pain"?
to manage it?

PTO/Page 3 Question 17...

	toral blocks (PEC) are an alternative to thoracic epidural or paravertebral blocks to place and anaesthesia to the hemithorax.	orovide
a)	What are the indications for a PEC 1 block?	(3)
b)	How does the Modified PEC's 2 block differ from the PEC's 1 block?	(2)
c)	What are the indications for a Modified PEC's 2 block?	(2)
d)	What are the advantages and disadvantages of continuous peripheral nerve blocks?	(3)

[10]

Candidate number:



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CANDIDATE NU	MBER
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Questions 18 - 20

There are 7 books for this examination, please ensure that the 7 books are handed over to the invigilator for marking.

A baby at 48-weeks post-conceptual age requires a laparotomy for a suspected intestinal	perforation
due to Hirschsprung's disease.	

List the controversies regarding induction and intubation of this patient.		pre-opo plicatio	ns?									O.	гозрпа
	List	the con	ntrovers	ies rec	garding	induct	ion and i	ntubation	of this	s patier	nt.		

PTO/Page 3 Question 19...

A three-year-old	d child with a	a moderately	sized (cardiac	ventricular	septal	defect	presents	for a	a club
foot repair.		-				-				

Explain the possib	ole cardiovascular pathophysiology associated with this cond	lition.
What are your hae	emodynamic goals when anaesthetising this child?	
What are your hae	emodynamic goals when anaesthetising this child?	
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What are your hae	emodynamic goals when anaesthetising this child?	
What are your hae	emodynamic goals when anaesthetising this child?	

PTO/Page 4 Question 20...

[10]

\//h	t is your likely diagnosis?	(*
	t is your likely diagnosis:	
Brie	ly discuss the possible pathophysiology of this type of pain.	(4
	ly describe 5 pharmacological agents for the above condition that have bective.	en shown to b (5

Candidate number:

[10]



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Paper 3			(3 hours)

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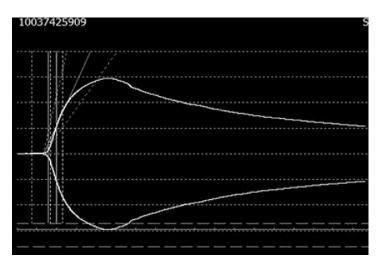
CANDIDATE NUMBER	
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Questions 1 - 4

There are 6 books for this examination, please ensure that the 6 books are handed over to the invigilator for marking.

Candidate number:

You are providing anaesthesia for a 24-year-old male patient who sustained a gunshot wound to the abdomen 2 hours previously. He had no other injuries. His blood pressure is 80/40mm Hg, mean arterial pressure 53mm Hg. His core temperature is 34.5°C. The surgeon finds a liver laceration and multiple bowel injuries. He says that that the bleeding appears to be excessive. You perform a thromboelastogram (TEG) to assist with management.



R time: 12 minutes (4-8) K time: 7 minutes (0-4) Alpha angle: 32° (47-74)

Maximum amplitude: 41mm (54-72)

LY30: 24.7% (0-8) LY60: 39% (0-15)

a)	Interpret these TEG findings.	(4)

How would you use these TEG findings to guide your therapy in this patient?	
What other 2 laboratory tests of coagulation would be most useful in this scenario?	

A 23-year-old male patient sustained a traumatic brain injury after being assaulted with a blunt object. His Glasgow Coma Score (GCS) was 7/15 on admission. He underwent an evacuation of an extradural haematoma and an intraventricular pressure monitor was placed. His weight is 68kg and he has no other injuries.

Intracranial pressure (ICP): 25mm Hq

Blood pressure: 100/54mm Hg; mean arterial pressure 69mm Hg

Arterial blood gas: FiO₂ 0,40 pH: 7,36

> pO₂: 120mm Hg /16 kPa pCO₂: 46.5mm Hg / 6,2 kPa Standard bicarbonate: 22mmol/l

Lactate: 0.9mmol/l

Ventilator settings: Volume control mode

> Tidal volume 550ml Respiratory rate 10 bpm

PEEP 10 cm H₂O

Inspiratory time 1.7 seconds

Peak inspiratory pressure is 32 cm H₂O



What ICP would you target in this patient?	(1)
	What ICP would you target in this patient?

PTO/Page 5 Question 2b)...

How do you calculate cerebral perfusion pressure?	(1
What is the cerebral perfusion pressure in this patient?	(1
What cerebral perfusion pressure would you target in this patient?	(1
How would you optimise ventilation in this patient? Explain your answer.	(6
	[10

You are asked to provide anaesthesia for a Caesarean Section. The patient is a 22-year-old primigravida with pregnancy induced hypertension. She is not in labour and there is no evidence of foetal distress. Blood results are as follows

Full blood count: WCC 6.2 x 10 ⁹ /l Hb 7.2 g/dl Platelets 45 x 10 ⁹ /l Liver function tests: ALT 139 U/l AST 240 U/l LDH 887 U/l					
What is the diagnosis?	(1)				
What other blood results would you like to see to better assess this patient?	(3)				
What anaesthetic technique would you use and why?	(2)				
(C 6.2 x 10 ⁹ /l 7.2 g/dl relets 45 x 10 ⁹ /l ref function tests: 139 U/l 7.40 U/l 1887 U/l What is the diagnosis? What other blood results would you like to see to better assess this patient?				

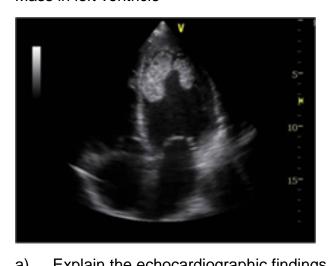
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You are asked to provide labour analgesia to a 19-year-old female in active labour. She is para 0 gravida 1 with a singleton pregnancy at term. She has recently been diagnosed with a cardiac condition and is on furosemide, potassium and carvedilol. She has a blood pressure of 110/60 mm Hg, a regular pulse of 100 bpm and has no evidence of cardiac failure. She had a transthoracic echocardiogram performed today. She is in a high care area.

Echocardiography findings: (Normal range in brackets)
Dilated left ventricle LVEDD 3.4 cm/m² (2.4-3.0)
Fractional shortening 15%
LV ejection fraction 28% (>55%)
Moderate mitral regurgitation
TAPSE 1.3cm (1.5-2)
Mild tricuspid regurgitation
Mass in left ventricle



a)	Explain the echocardiographic findings.	(5)
b)	What is the likely diagnosis?	(1)
		PTO/Page 9 Question 4c)

What is the most likely nature of the mass in the left ventricle?	(1)
What treatment will the mass require?	(1)
What mode of labour analgesia will you offer? What monitors will you use?	(2)
	[10]



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Paper 3	(3 hours)

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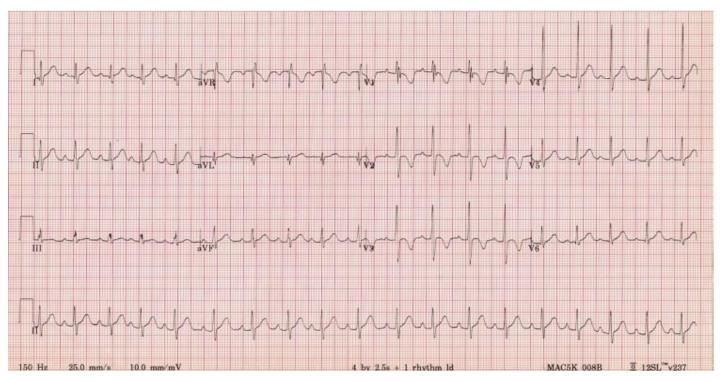
CANDIDATE NUMBER

Questions 5 - 8

There are 6 books for this examination, please ensure that the 6 books are handed over to the invigilator for marking.

Candidate number: _

A 2-year-old boy presents for a tonsillectomy at a day clinic. He has no significant medical or surgical history and is otherwise well. Examination reveals a murmur. An ECG is done to investigate further.



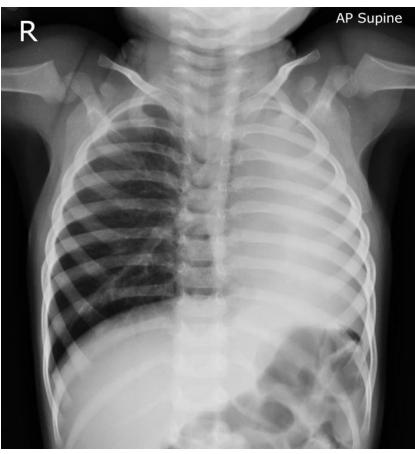
What featu considered	-				_ ,		(

a child is pathologic	,		

PTO/Page 4 Question 6...

A 3-year-old child, who was previously well, is admitted with a sudden onset of cough and dyspnoea whilst playing. The child is afebrile, tachypnoeic and tachycardic and has left sided wheezes. He is placed on 40% facemask oxygen and IV fluids are commenced.

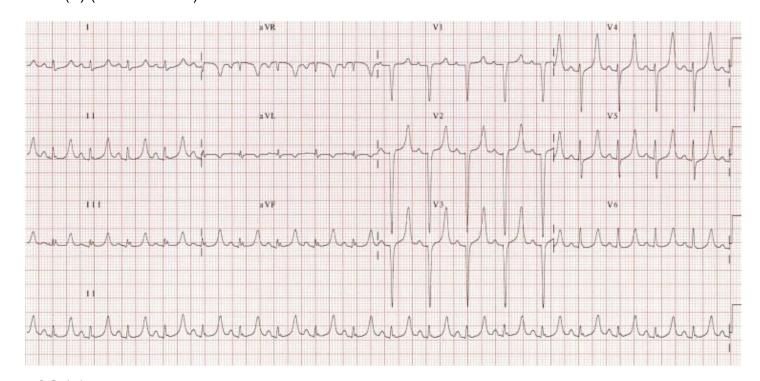
This is his chest x/ray:



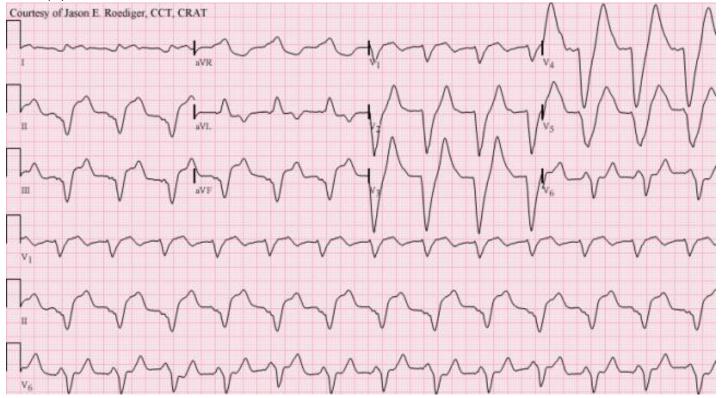
a)	List 3 abnormalities on the above chest x-ray taken upon admission.	(3)

vnat is the most	likely diagnosis and cause in this child? Justify your answer.	(;
What are the con	ncerns regarding an intravenous induction in this child?	(
What is the main	advantage and disadvantage of an inhalational induction in this child?	(
		[1

A 75-year-old female has a history of insulin-requiring diabetes mellitus. She developed a septic foot that progressed to severe sepsis and acidosis which required ICU admission. Her serial ECG tracings are presented below. ECG (A) taken on admission. ECG (A) (On admission)



ECG (B) 1 hour later



PTO/Page 7 Question 7a)...

What are the most concerning features in the above ECG's (A) and (B))?
What is the most likely cause?	
What is the <u>immediate</u> management of this condition?	
	[

Candidate number:

Α	43-year-old	female	patient	being	invest	igated	for	extra-pulmonary	tuberculosis	presents	with
hy	potension a	nd weak	ness. Tl	nese a	re her	special	inv	estigations			

Na+ K+ = Ren Urea Crea	etrolytes: = 128mmol/L 6mmol/L al Function: a = 18 atinine = 164 erial Blood Gas (FiO2 = 0.4):	
	= 7.25; $PaCO_2 = 35mmHg (4.6 kPa)$; $PaO_2 = 110mmHg (14.6 kPa)$; $HCO^3 = 18$; $BE = -6$	
a)	What syndrome is the most likely cause of the above clinical and biochemical picture?	(2)
b)	Explain the pathophysiology of the abnormalities found in the above investigations.	(6)
		
c)	What drug is used to treat the above condition/ syndrome?	(1)
	PTO/Page 9 Question	8d)

at anaesthetic agent may result in the above condition?	
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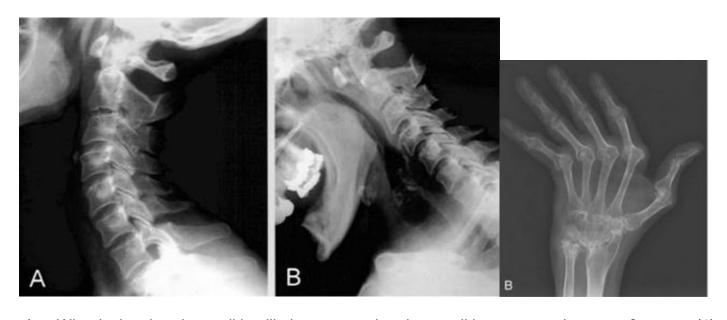
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CANDIDATE NU	MBER
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Questions 9 - 11

There are 6 books for this examination, please ensure that the 6 books are handed over to the invigilator for marking.

The following x-rays are from a 50-year-old female presenting for laparotomy for a perforated peptic ulcer.



B?	
of this neck would make you concerned?	
	B? of this neck would make you concerned?

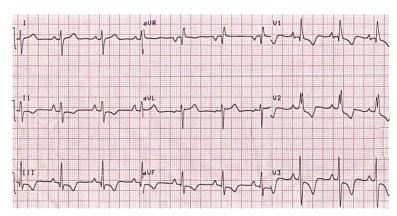
and disadvantages	s or each.		

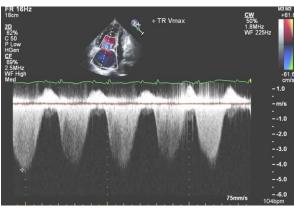


What block is depicted in this CT scan?				s depicted in this CT scan?	
In which particular anatomical or disease process of the eye would indicated?	this block be	con			

In patients in whom this block is contra-indicated, what other blocks using local agents could be safely used?	l anaestheti (4
	•
What options can be used to shorten the onset of action of eye blocks?	(3
	[10

The following is an ECG and Echocardiogram of a patient with long standing obstructive sleep apnoea syndrome.





[10]

pasis for each.	J	·	•	(10)



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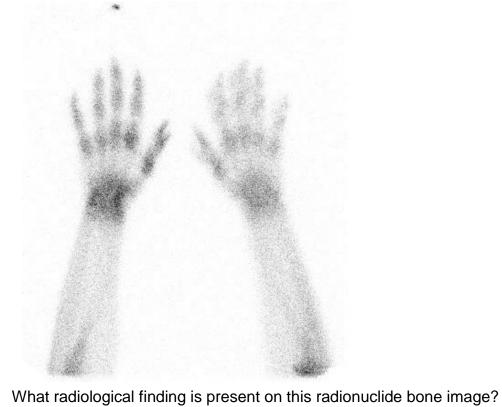
CANDIDATE NUMBER	
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Questions 12 - 14

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a)

In a patient with type 1 Complex Regional Pain Syndrome (CRPS1)



Candidate number: _____

What x-ray finding will likely be present in chronic CRPS1 and what is the cause?	
What nerve block can be done to treat this condition?	

(2)

PTO/Page 3 Question 12d)...

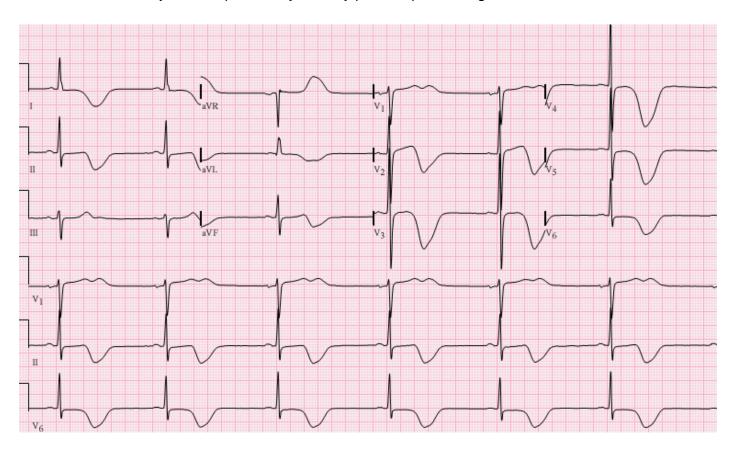
What clinical findings will indicate a successful block?	

PTO/Page 4 Question 13....

[10]

	ays after a tra his results	umatic brain injury, an intubated patient develops	significant polyuria in ICU. These
S-Po S-O	odium: otassium: smolality: smolality:	151mmol/L 4.2mmol/L 330mmol/L 30mmol/kg [50-1200]	
a)	What is the	most likely pathology in this patient?	(1)
b)	What fluids	would you prescribe for this patient?	(2)
c)	What is the	definitive treatment?	(2)
d)	Give another	er 5 possible causes of polyuria in this patient.	(5)
			[10] PTO/Page 5 Question 14

This ECG is of a 35-year-old, previously healthy patient, presenting with a sudden severe headache.



Describe three prominent abnormalities on this ECG	
·	
What is the most likely cause for this clinical picture?	
What is the most mory sauce for the similar picture.	
·	

PTO/Page 6 Question 14c)...

Candidate number:

Discuss the underlying mechanism of the ECG changes in the above-mention	oned pathology. (2
What other ECC changes are often found in these nationts?	(2
What other ECG changes are often found in these patients?	(2)
What are other possible causes for the above ECG changes?	(2
	· · · · · · · · · · · · · · · · · · ·
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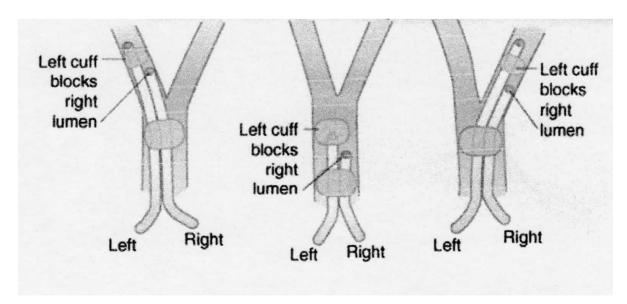
Questions 15 - 17

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Candidate	number.		
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The picture below depicts placement of a double lumen tube. Analyse the pictures from the left side to the right side.

a) Fill in the table below where breath sounds will be audible in relation to each picture when a clamp is applied to verify placement. (9)



Procedure	Breath sounds audible on (Right/Left/Both sides/None or reduced)					
	Left side Picture	Middle Picture	Right side Picture			
Clamp applied to right lumen with both cuffs inflated.						
Clamp on left lumen, with both cuffs inflated.						
Clamp on left lumen. With left cuff deflated.						

b)	Which	picture	depicts	correct	placement	of a	double	lumen	tube?
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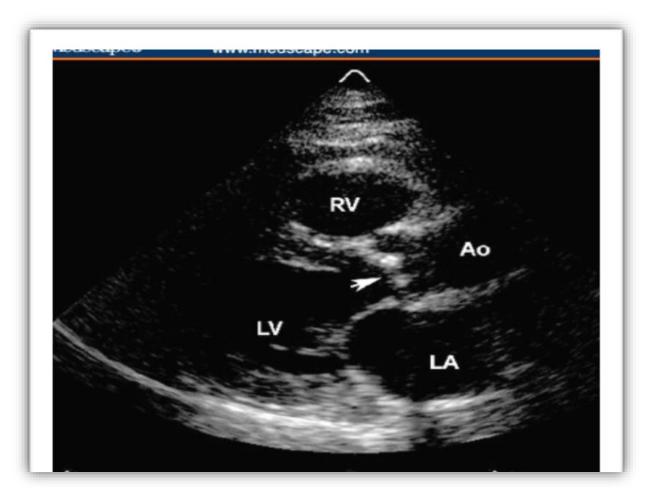
(1)

- i) Left.
- ii) Middle.
- iii) Right.
- iv) None of the above.

PTO/Page 3	Question 2	16
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Candidate	niimnar.		
Carididate	HUHHDUL.		

An 84-year-old man complains of syncope, chest pain and shortness of breath for two weeks. His vital data are pulse 140 beats per minute, irregular; BP 96/78 mmHg; BNP 2800pg/mL.



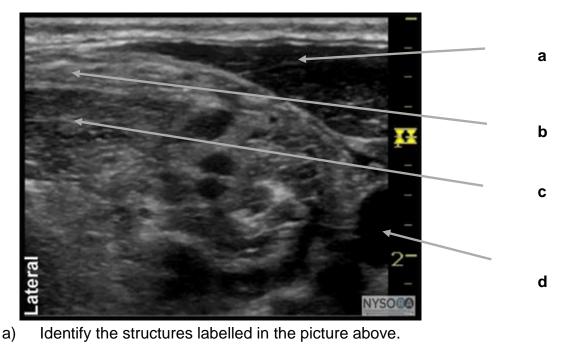
/hat is the nex	xt investigation you	ı will require in this p	patient?	
•	•	n this echocardiogra	am of this patient	to explain some of
_	hat changes		hat changes do you observe on this echocardiogra	hat is the next investigation you will require in this patient? hat changes do you observe on this echocardiogram of this patient atient's symptoms?

Candidate number:

PTO/Page 4 Question 16c)...

aemodynamic goals you will pursue in the anaesthetic management of this	patient (7

With regards to regional anaesthesia for carotid endarterectomy



List monitoring	techniques for	cerebral ischaemi	a during carotid	endarterecton	ny in ord
List monitoring efficacy and gi	g techniques for ve reasons for yo	cerebral ischaemi our weighting.	a during carotid	endarterecton	ny in ord
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List monitoring efficacy and gi	techniques for your reasons for you	cerebral ischaemi our weighting.	a during carotid	endarterecton	ny in ord

Candidate number:

(4)

c)	List 2 benefits of using ultrasound to do this block.	(2)

[10]



FCA(SA) Part II

THE COLLEGES OF MEDICINE OF SOUTH AFRICA

Incorporated Association not for gain Reg No 1955/00003/08

Final Examination for the Fellowship of the College of Anaesthetists of South Africa

25 July 2018



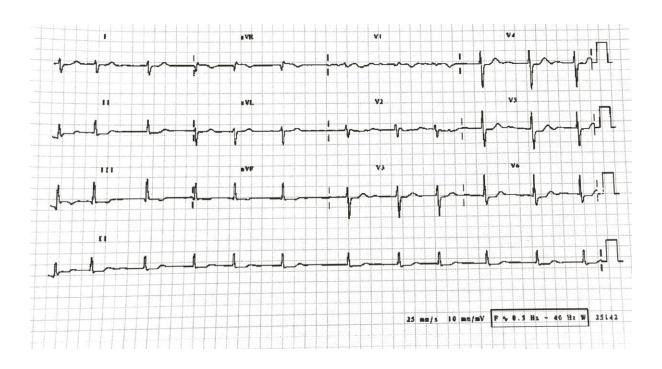
Paper 3

All questions are to be answered in the space provided.

Questions 18 - 20

There are 6 books for this examination, please ensure that the 6 books are handed over to the invigilator for marking.

This is the ECG of a 68-year-old male patient who presents with an **open tibial fracture for wound debridement and internal fixation**. The patient has a heart condition for which he is on unknown chronic medications.



What are the abnormalities (Diagnosis) on the ECG?	(3)
Name one useful investigation that you would ask for in order to decide on your anaes technique. Justify your answer.	thetic (2)

PTO/Page 3 Question 18c)...

c)	Intra-operatively; the patient develops a heart rate of 160-168 beats per minute and his blood pressure drops from 110/75mmHg to 100/65mmHg. How would you manage this event? (5)					

PTO/Page 4 Question 19...

[10]

His blood results are as follows

Candidate number: _____

A 56-year-old male patient with type 2 Diabetes Mellitus presents for bronchoscopy for a suspected mass in the lung. On pre-operative evaluation he is confused.

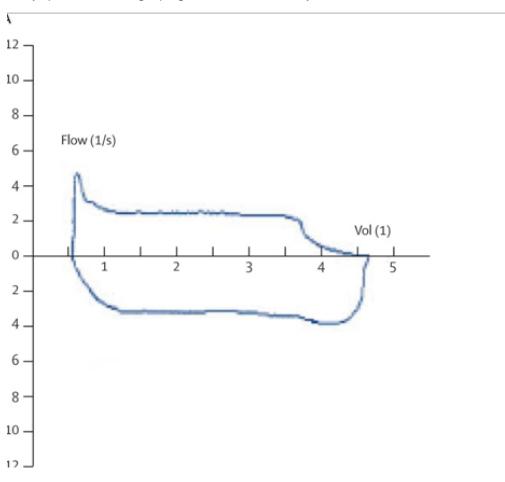
Chlo Pota S- C U- C	assium Osmolality Osmolality	122mmol/l 94mmol/l 4.8mmol/l 263mOsm/kg 250mOsm/kg 40mmol/L		
a)		ost likely clinical diagno	osis and cause for this biochemical picture?	(2)
b)	What other pos	ssible causes for the a	above biochemical picture should be EXCLUI	DED? (3)
c)	How will you o	ptimise this patient for	the procedure?	(3)

PTO/Page 5 Question 19d)...

Name two potential risks which may occur as a result of optimising t	-

Candidate number: _

Below is the flow volume loop of a 22-year-old patient. He is booked on your list for a mediastinoscopy. He complains of dyspnoea at rest which worsens on lying flat. On examination he is dyspnoeic, sitting upright, and has red eyes and a swollen face.



a)	What does the flow volume loop show?	(1)
b)	Which radiological investigation would be useful in assessing	g the airway? Justify your answer. (2)

PTO/Page 7 Question 20c)...

[10]