

FACULTY OF MEDICINE, UNIVERSITY OF RUHUNA FINAL EXAMINATION FOR MEDICAL DEGREE – NOVEMBER 2016 MEDICINE PAPER 1

21st November 2016

(1.00 - 4.00pm) 3 hours

Index Number:

Instructions:

- 1. Write your index number in all the pages.
- 2. Answer all questions.
- 3. Write your answers in the space given after each part of the question.
- 4. The space given is adequate for the expected answer.
- 5. Please return the question book at the end of the examination.
- 6. Required normal values are given within brackets.

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1.	A 35 year old male was referred to a medical clinic with blood pressure values of	
	170/110,180/100 and 175/ 115 mmHg on three separate days within two weeks.	
1.1	Mention five (05) features in this patient's history that would indicate the likely	
	aetiology of hypertension. (20 ma	arks)
		• • • • • • • •
		• • • • • • •
1.2	List four (04) physical signs that you would elicit in the physical examination to	
	support a secondary cause for hypertension in this patient, indicating the relevant	t
	underlying pathology. (20 ma	arks)
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		• • • • • • •
1.3	List two (02) physical signs which suggest that hypertension has been present	
	undetected over a long period. (10 ma	arks)
		· · · · · · · ·
		· • • • • • • • • • • • • • • • • • • •
1.4	List five (05) investigations that you would request on the first clinic visit and indic	cate
	the reasons for your request. (30 m	arks)

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	1.5	List three (03) different classes of anti-hypertensive agents that you cou	ıld start as the
(6)		first line therapy and give one specific, common adverse effect of each	class.
			(20 marks)
			•••••••
	2.	A 65-year-old male labourer presented with cough and haemoptysis of	three weeks.
		He has felt feverish on most days during that period. Examination rev	ealed coarse
		crepitations over the upper zone of the right lung.	
0	2.1	List three (03) differential diagnoses.	(15 marks)
	2.2	Briefly discuss the expected findings in the chest radiograph in each of	the diagnoses
		mentioned.	(30 marks
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		The patient received a course of antibiotics for one week. He had wo	rsening
		dyspnoea. Examination revealed duliness to percussion and absent to	reath sounds
		over the right lung. The trachea was deviated to left side.	
	2.3	What complication would you suspect according to the given clinical	findings?
0			(10 marks)
	2.4	Briefly discuss further investigations and the treatment of the complic	ation given
		in 2.4.	(45 marks)
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Inc	lex	N	o.

	3.	A 70-year-old male had a routine blood count performed by his Ger	neral Practitioner.
		The results are as follows.	
		Hb 8 g/dL, WBC 3000/mm ³ , Platelet count 70000/mm ³	
	3.1	Give four (04) differential diagnoses.	(20 marks
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4	3.2	List the expected features in the blood picture and bone marrow in e	ach of the
100		conditions listed in 3.1.	(40 marks)
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	3.3	List four (04) complications of chronic iron overloading following recu	rrent blood
		transfusions.	(20 marks)
			•••••

	3.4	Briefly discuss the prevention of iron overload in patients who need recurrent	
		transfusions.	(20 marks)
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	4.	A 25-year-old male presented with weight loss, polyuria and polydipsia for duration. Random blood sugar performed on admission was 456 mg/dL. H	
		drowsy and tachypnoeic. The blood pressure was 110/60 mmHg.	
	4.1	What is the most likely cause for his symptoms?	(10 marks)
((O)	4.2	List six (06) investigations that you would request to manage this patient a	nd briefly
		explain the expected findings.	(40 marks)
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1.3	Briefly describe the immediate and the long term steps in the management	
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5.	A previously healthy elderly male was admitted to medical causality ward with fever		
	for five days and progressive reduction in urine output. He has been treated by a		
	general practitioner on the first day of fever with several medications. After admission		
	and catheterization, 50ml of urine was drained over a period of six hours.		
5.1	What is the most likely underlying complication that had developed according to the		
	information given? (10 marks)		
5.2	List three (03) possible underlying causes for the complication mentioned in 5.1 in this		
	patient. (15 marks)		

5.3	Mention one feature that you would elicit in the history that would support each of the				
	conditions mentioned in 5.2.	(15 marks)			
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5.4	List five (05) investigations that are indicated within the first 24 hours of				
	and briefly state the reasons for your selection.	(30 marks)			
5.5	List four (04) different life-threatening complications that may occur in th				
0.0	during the hospital stay, and mention specific therapy for each of them.	(30 marks)			

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	ъ.	A 57-year-old male was admitted to a medical ward with pedal bedema.	/11
		examination there was moderate ascites.	
		Investigations: Hb 9.8 g/dL, white cell count 3800/mm³, platelet count 84,0)00/mm³,
		serum albumin 2.8 g/dL (normal 3.5-5.5), AST 88 U/L(normal10-40), ALT	73 U/L
		(normal 7-55), serum bilirubin 53 μmol/L(normal<27μmol/L), direct bilirubi	in 44
		μmol/L(normal<7μmol/L) , serum sodium 123 mmol/L, potassium 4.2 mm	ol/L, serum
		creatinine 76 mg/dL, PT/INR 1.9	
	6.1	What is the most likely underlying diagnosis?	(15 marks)
) ·			
	6.2	Comment on the prognosis of his condition considering clinical features as	nd
		investigation results given.	(25 marks)
:	6.3	List five (05) additional investigations that you would request to find out the	ne aetiology
		of the diagnosis mentioned in (6.1) giving reasons for your selection.	(30 marks)
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6.4	One month later he was readmitted with hematemesis. Outline the immediate		
	management. (30 marks)	į	
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7.	A 35-year-old man presented with left face, arm and leg weakness. He has no history	,	
	of head injury.		
7.1	List four (04) cerebral pathologies that can cause this disability. (exclude trauma)		
	(20 marks	;)	
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1.2	Briefly discuss now you differentiate each of the pathologies that you mention in 7.1		
	based on the clinical history.	(40 marks)	
7.3	Give the characteristic findings in the CT scan of the brain in each of	the pathologies	
	mentioned in 7.1.	(40 marks)	
	·	• • • • • • • • • • • • • • • • • • • •	
8.	A 25-year-old female was admitted to the casualty with an overdose of	of	
	Paracetamol following an argument with her boyfriend. She was brou	ght to the	
	hospital within one hour of ingestion of the tablets. On admission the	GCS was 15/15.	
	7.3	7.3 Give the characteristic findings in the CT scan of the brain in each of mentioned in 7.1.	

8.1	List three (03) important features in the history/examination that determines that the				
	ingestion was life threatening?	(15 marks)			
8.2	List three (03) immediate steps in the management of a life threatening paracetamol				
	overdose.	(30 marks)			
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		••••••			
8.3	List Three (03) clinical parameters you would continue to monitor in the				
,	List Pinds (66) similar parameters you means sentiment to the sentiment	(15 marks)			

8.4	List Three (03) relevant investigations that you would arrange and indica	ite the optima			
	time of sample collection.	(15 marks)			

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5.5	List five (05) clinical parameters that you would assess to decide the inness for				
	discharge.	(15 marks)			
		••••••••••			
8.6	Briefly state the follow up plan for this patient.	(10 marks)			
