

## FACULTY OF MEDICINE, UNIVERSITY OF RUHUNA FINAL EXAMINATION FOR MEDICAL DEGREE – MAY 2018 MEDICINE PAPER 1

May 21<sup>st</sup> 2018

(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.

1.	A 65-year-old mason was brought to the Emergency Treatment Unit (ETU) after he had collapsed on the floor. He had developed retrosternal chest pain two hours ago while working. On examination, he appeared unwell, sweaty and in pain. The pulse rate is 96 beats per minute, blood pressure is 100/70 mmHg in both arms. There was a 4 <sup>th</sup> heart sound detected on auscultation. Lung bases were clear. The ECG showed 2mm ST elevation in leads V1-V6. The patient is being evaluated for thrombolytic therapy.
1.1	List <b>four</b> therapeutic measures that are useful prior to thrombolytic therapy. Briefly explain the rationale for each of these therapies (40 marks)
	each of these therapies. (40 marks)
1.2	List <b>four</b> main contraindications for administration of thrombolytic therapy. (30 marks)
1.3	Briefly discuss three possible explanations that would have led to the collapse of the patient.
	(20 marks)
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1.4	List the reasons for delays in seeking medical help by patients with acute chest pain.	(10 marks
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2.	A 25-year-old female was referred for evaluation of anaemia. Examination revealed mild p	allor with firm
	moderate splenomegaly. Her initial investigations are given below.	
	Haemoglobin – 8 g/dL, White cell count – 10300 / mm <sup>3</sup> (N – 56%, L – 42%),	
	Platelet count – 140000 / mm³, Serum bilirubin – 2.3 mg/dL, direct bilirubin – 0.8 mg/dL	
2.1	What is the most likely hematological diagnosis?	(10 marks)
		••••••
2.2	List four possible causes for the diagnosis mentioned in 2.1.	(20 marks)
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2.3	Mention one relevant feature you would elicit in history in support of each of the diagnoses	listed in 2.2.
		(20 marks)
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2.4	List four investigations that you would perform to confirm the hematological diagnosis mer	ntioned in 2.1
	and mention the expected findings in each of them.	(30 marks)
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2.5	List four investigations, you would perform to diagnose each of the underlying causes mer	ntioned in 2.2.
		(20 marks)
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3.	A 35-year-old man was brought to the hospital with a recent history of severe headache fo	r three days.
3.1	Mention three features in the history that would indicate three different etiologies which ne	eed urgent
	investigations.	(15 marks)
3.2	Mention the diagnosis suspected with each feature in the history mentioned in 3.1.	(15 marks)
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3.3	List the expected specific examination findings in each of the diagnoses in 3.2.	(10 marks)
3.4	List <b>one</b> specific investigation to support each of the diagnoses mentioned in 3.2 with a	expected results.
		(30 marks)
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3.5	Briefly discuss management of <b>one</b> of the conditions that you mentioned in 3.2.	(30 marks)
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4.				_	
4.1	List five clinica	I features of alcohol w	ithdrawal state.		(30 marks)
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4.2	List two compli	cations of untreated a	lcohol withdrawal.		(20 marks)
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4.3	Briefly outline th	nharmacological m			••••••
	Briding Gutimic (	ic pharmacological ma	anagement of a patient pr	esenting with alcohol withdra	
					(50 marks)
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5.	The following are	e the investigations pe		female admitted with an unco	
	state.				
	Investigations:				
	Serum sodium	– 133 mmol/L	Serum potassium	- 5.0 mmol/L	
	Blood glucose	- 21.4 mmol/L	Serum creatinine	- 1.8 mg/dL (NR 0.6 – 1.5	)
	Blood pH	- 7.33	PaCO2	- 3.9 kPa (NR 4.6 – 6.1)	
	White cell count	- 16,200 mm <sup>3</sup> (neu	trophils – 80%, lymphocy	tes - 18%, Eosinophils – 2%)	
•	Urinalysis - Albu	min trace, deposits -:	20 - 30 pus cells, no red	cells	

5.1	What is the most likely condition that accounts for her unconscious state?	(20 marks)
5.2	Describe the steps in the immediate management of this patient.	(80 marks)
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6.	A previously healthy 25-year-old man was admitted with bilateral ankle oedema and shortness. He had passed only a small quantity of red coloured urine during the last 24 hours on admission showed raised JVP and blood pressure of 160/95 mmHg.	
6.1	What is the most likely diagnosis?	(10 marks)
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6.2	How would you manage him in the hospital?	(40 marks)
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Two	Two days after admission the patient complained of severe headache and developed a seizure.		
6.3	List two complications which explains his convulsion.	(20 marks)	
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6.4	Outline the management of one of the complications that you have mentioned in 6.3.	(30 marks)	
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7.	A 50-year-old man is admitted to a Teaching Hospital with a history of vomiting blood several	times during	
	the previous 24 hours.	,	
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7.1	List the specific questions you would ask this patient in order to find the cause of the bleeding	j. (50 marks)	
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7.2	Briefly discuss the management of this patient.	(50 marks)
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8.	A 65-year-old male was admitted with right sided chest pain, fever and cough of 10 da	ys duration. He is a
	smoker and consumes alcohol daily for the last 5 years. Examination revealed temper	rature 101ºF,
	respiratory rate of 30 cycles/ minute. Right upper chest was dull to percussion and bro	onchial breathing
	with crepitations were present on right upper zone. Chest radiograph showed an area	of uniform opacity
	in the right upper zone.	
	He was started on cefuroxime (750 mg tds IV) and clarithromycin (500mg bd IV) but for	ever failed to show
	any response after 7 days of antibiotics.	
8.1	What further questions are relevant to find out the cause of his illness?	(40 marks)
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2 List four investigations that would help to find out the cause of his illness and state	the expected finding
	(40 marks
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Give two possible symbols	
Give <b>two</b> possible explanations for this patient's non-response to therapy.	(20 marks)
	(20 marks)
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