

## FACULTY OF MEDICINE, UNIVERSITY OF RUHUNA FINAL EXAMINATION FOR MEDICAL DEGREE – NOVEMBER 2017 MEDICINE PAPER 1

November 20th 2017

(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.

	weeks. He attends a medical clinic at a local hospital for hyperodyslipidaemia. His medications include atended 50 mg bd, atorvastatin 10 HCT 25 mg daily.  Examination on admission shows an average built man with a respirate cycles per minute, Blood pressure of 158/100 mmHg and pulse of 72 /bpr apex is felt at the 5th intercostal space, 3cm laterally displaced. There is murmur at the apical area. Fine crepitations are heard over lung bases to	ory rate of 30 n. The cardiac a pan-systolic
1.1	List two (02) acute medical problems seen in this patient.	(10 marks)
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1.2	List the cardiac abnormalities seen in this patient and provide a possible	explanation
	for those abnormalities.	(30 marks)
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1.3	Describe the steps involved in the acute management of this patient.	(30 marks)
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1.4	List four (04) medications that are indicated in the long term manageme	nt of this
	patient and briefly explain the pharmacological basis of their use.	(30 marks)
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2.	A 22-year-old school boy is admitted to the hospital with a four-day histo headache and vomiting. On admission he was febrile, pulse is 100/bpm pressure is 100/75 mmHg. Diminished breath sounds were noted at the lower zones of lung on the right side. The right hypochondrium was tend	and blood mid and
	Investigations:	
	Full blood count : Hb- 16.1g/dL, PCV 50, white blood cells- 1500/mm³	
	Platelets- 19,000/mm³	
2.1	What is the most likely diagnosis?	(10 marks)

abdomen on admission to the hospital.	(20 marks)
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Briefly outline the management of this patient.	(40 marks)
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Table beautiful administration the national deteriorated. Evamination	revealed cold
•	revealed cold
	(10 marks)
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t .	
	Briefly outline the management of this patient.

investigations?	(20 marks)
·	
revealed an ill looking, wasted man with a BMI of 19. The patient is dro	ovsy, GCS is
11/15. The blood pressure is 90 /60 mmHg, respiratory rate is 40/min.  Urine ward test: Albumin +, Sugar +++	owsy, GCS is
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3.3	Briefly describe the steps in the management of this patient of	on the first day of hospita
	admission	(50 marks)
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	coloured sputum and haemoptysis of one-week duration. During the has had several hospital admissions and received outpaties.	• ,
	symptoms.  Physical examination revealed a febrile, patient with pallor, m	
	bilateral finger clubbing. There were bilateral coarse crepitation bases.	ns over the both lung
4.1	What is the clinical diagnosis?	(10 marks)
4.2	List <b>four</b> (04) abnormalities that you would expect to find in the	·
	this patient.	(20 marks)
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		r
4.3	List <b>five</b> (05) investigations (other than a chest radiograph) the	at you would request in
1.0	this patient and mention how each of the investigation helps the	-
		ne management of the
	diagnosis mentioned in 4.1.	(25 marks)
		(25 marks)
	•	(25 marks)
		(25 marks)

35-year-old male presented with fever and productive cough with copious, yellow

4.

	4.4	What antibiotic/s would you consider for this patient on admission?	(10 marks)
	4.5	Give reasons for your antibiotic choice.	(15 marks)
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}	4.6	Mention one life threatening complication and two chronic complications	of the
	•	condition you mentioned in 4.1.	(20 marks)
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	5.	A 35-year-old previously healthy married woman is admitted with sudder	n onset face-
		arm-leg weakness on the left side noticed 6 hours before admission.	
		She has been previously healthy and has not taken any medication exceoral contraceptives.	ept being on
)		On examination she is conscious and rational. The blood pressure is 12	0/70 mmHg.
•		The pulse is regular with a rate of 60/bpm. There is weakness of face ar	m leg on the
		left side. The swallowing is normal.	
	5.1	What is the most likely diagnosis?	(5 marks)
	5.2	List three (03) investigations that you would arrange immediately. marks)	(15
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	in 5.2 are normal?	(40 marks)
4	Discuss how you would investigate this patient further, to find the cause of	of her
4	Discuss how you would investigate this patient further, to find the cause of illness.	of her (40 marks)
4		(40 marks)
4	illness.	(40 marks)

б	A 16-year-old girl presented with tiredness for three months. She has had poor exercise tolerance since childhood. Her father has mild anaemia but is stable and well. Examination revealed an averagely built girl with moderate pallor, mild icterus and a firm spleen felt just below the costal margin.	
	Hb 9.0 g/dL, WBC 8400 /mm³, Platelets 250,000/mm³	
6.1	What is the most likely diagnosis? (10 marks	)
		•
6.2	Give one differential diagnosis. (10 marks	)
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6.3	Give five (05) investigations to confirm the diagnosis giving expected results (50 marks	;)
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## Part B

6.3	List the precautions that are carried out before and after a splenectomy.	(30 marks)
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7.	A 47-year-old male is admitted complaining of fever for five days. He has	no
	respiratory or urinary symptoms. On examination sclerae are icteric.	
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7.1	List four (04) differential diagnosis.	(20 marks)
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7.2	Mention two (02) clinical features that you would look for to support each o	
	diagnoses (8 in total)	(30 marks)
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,	findings.	(30 marks)
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7.4	Briefly describe the management of one of the above conditions.	(20 marks)
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8	A 39-year-old male is admitted complaining of dark coloured urine fo	r one day. He
	has no fever, dysuria or abdominal pain. He had been well except fo	r a recent upper
	respiratory tract infection. He has smoked 10 cigarettes a day for the	past 10 years.
	On examination his blood pressure was noted to be 145/95 mmHg.	
8.1	What is the most likely diagnosis?	(10 marks)
		•••••

3.2	List three (03) differential diagnoses.	(15 marks)
8.3	Give one clinical feature each to support the above four diagnoses (4 in tot	al) (20 marks)
	,	
8.4	Mention <b>four</b> (04) investigations that are indicated and give the expected f	
0.4	support each of the above diagnoses.	(30 marks)
8	.5 Briefly describe the management of condition you mentioned in 8.1.	(25 marks)
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