

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

26th November, 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 22-year-old girl is admitted to the hospital with a four-day histoheadache and vomiting. On admission she was febrile, pulse is pressure is 100/75 mmHg. Breath sounds were absent at the midlung on the right side. The right hypochondrium was tender. Investigations: Full blood count: Hb-16.5 g/dL, PCV-52, white blood cells-1400/mm Platelets-17,000/mm ³	s 100/bpm and blood d and lower zones of
	1.1	What is the most likely diagnosis?	(10 marks)
lij 👌			•••••••••
W.	1.2	Explain the abnormal physical signs recorded on chest and abdome the hospital.	(20 marks)
			•••••••••
%	1.3	Briefly outline the management of this patient.	(40 marks)
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		Three hours after admission, the nations deteriorated. Former is	••••
		Three hours after admission, the patient deteriorated. Examination revealed cold peripheries with a blood pressure of 80/60 mmHg.	
		, common of object thinking.	
	1.4	List two (02) possible reasons for his deterioration. (10 marks))
(C)			<i>.</i> .
	1.5	How would you differentiate between the above two reasons clinically and by	
		investigations? (20 marks)	
(a)			
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	2.	A 25	
	۷.	A 35-year-old female presented with sudden onset shortness of breath and left sided	
		chest pain on breathing for three hours duration. She had no cough, wheezing or feve	er.
		On examination, pulse rate 110/bpm regular, blood pressure: 110/70 mmHg, jugular	
		venous pressure:5cm elevated, cardiac apex was not displaced. The respiratory rate	
		was 25 cycles/minute, pulmonary auscultation revealed normal vesicular breath sound	١.

General examination revealed oedema of right lower limb.

2.1	State the complete clinical diagnosis.	(20 marks)
2.2	Give four (04) additional questions in the history that you would ask, to diagnosis.	(20 marks)
2.3	List five (05) investigations to support the diagnosis and state the exped	
		/40 1 \
		(40 marks)
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2.4	List two (02) pharmacological therapies that are immediately indicated	to treat this
	patient.	(10 marks)

2.5	List two other therapeutic options available to treat this condition.	(10 marks)
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	······································	
3.	A 30-year-old male was admitted to the casualty with an overdose of Pa	aracetamol
	following an argument with his wife. He was brought to the hospital with ingestion of the tablets. On admission the GCS was 15/15.	nin one hour of
3.1	List three (03) important features in the history/examination which deter	mines that the
	ingestion was life threatening	(15 marks)
3.2	List three (03) immediate steps in the management of a life threatening	
	overdose.	(30 marks)
		••••••
		••••••
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	3.3	List three (03) clinical parameters you would continue to monitor in the n	ext 48 hours. (15 marks)
I	3.4	List three (03) relevant investigations that you would arrange and indicate time of sample collection.	e the optimal (15 marks)
			•
	3.4	List five (05) clinical parameters that you would assess to decide the fitne discharge.	(15 marks)
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			•••••••••••••••••••••••••••••••••••••••
1	3.5	0.000	(10 marks)
	4.	A 60-year-old male presented with loss of appetite, lethargy, nausea and befor one month duration. He has hypertension for 3 years. On examin pallor and bilateral pedal oedema was present. The blood pressure and he	ation mucosal

	normal.	hysical examination is
	Investigations:	
	Hb – 8 g/dL, WBC – 6000/mm³, platelets – 200,000/mm³	
	FBS – 119 mg/dL	
	ESR – 50mm 1st hour	
	ECG – left ventricular hypertrophy	
	Serum creatinine – 4.5 mg/dL (normal 1.1mg/dL)	
4.1	List five (05) main problems identified in the given scenario.	(5 marks)
	•••••••••••••••••••••••••••••••••••••••	
		••••••
1.2	What is the most likely diagnosis?	(10 marks)
		•
.3	List six (06) questions that you would ask from this patient to find th	ie possible aetiology
	of this patient's illness.	(30 marks)
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	4.4	(00) farther investigations that are indicated in management	nt of this nationt Give
		the expected results of the investigations requested.	(25 marks)
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	4.5	Briefly discuss how you would treat three (03) of the major problems	identified in 4.1. (30 marks)
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	5 .	A 30-year-old female presented with acute shortness of breath, cough and wheezing. She had episodic asthma from her childhood. The patient was on inhaled beclomethazone dipropionate 400 micrograms twice a day for the past two years. Her general practitioner diagnosed acute asthma and directed her to the emergency treatment unit.
	5.1	List five (05) clinical features that would help in determining the severity of her acute episode of asthma. (15 marks)
(40)		
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(©	5.2	
	5.2	List three (03) reasons for the agute overest at the
	5.2	List three (03) reasons for the agute overest at the

indicating the mode of delivery and mechanism of action.	(40 mar

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	•••••
List three (03) bedside measurements to	
List three (03) bedside measurements to assess the respone emergency treatment unit.	se to treatment in the
gonoy treatment unit.	(15 marks)
	•••••

5	Despite receiving optimal therapy the patient's response was poor. possible causes for the poor response to treatment.	List three (03) (15 marks)
		•••••••••••••••••••••••
6.	A 35-year-old man presented with left face, arm and leg weakness. He head injury.	e has no history o
6.1	List four (04) cerebral pathologies that can cause this disability. (exclud	de trauma)
		(00
6.2		
	based on the clinical history.	ention in 6.1 (40 marks)
(1)		*******************************

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6.3	Give the characteristic findings in the CT scan of the brain in each of the p	
	mentioned iff 6, 1.	
		(40 marks)

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7.	A 43-year-old female was admitted with fatigue, lethargy and weeks duration. She denied having fever, cough and significal mother of two children and had amenorrhea for last seven year revealed pallor, but no jaundice, lymphadenopathy or hepato-sp. On admission, her blood pressure was 86/62 mmHg, puls 37.4°C and respiratory rate was 14cycles /min. Investigation 30mm 1st hour, Hb10.2 g/dL. Thyroid function tests showed: (0.2 – 0.5), serum free T ₄ of 0.2 ng/dL (0.8 – 1.8) and TSH of 0.2 ng/dL (0.8 – 1.8).	ant weight loss. She is a ars. Physical examination plenomegaly. se 104/bpm, temperature ons: FBS 70mg/dL, ESR Serum T ₃ of 0.063ng/dL
7.1	What is the most likely diagnosis?	(20 marks)
7.2	List three (03) features in the history that you would ask to ide for the diagnosis mentioned in 7.1	ntify the underlying cause (30 marks)

	7.3	List four (04) investigations that should be carried out in order to su	pport the diagnosis
		mentioned in 7.1	(20 marks)
		······································	

	7.4	Describe in brief how you would manage this patient within the first 2	4 hours of hospital
		admission.	(30 marks)
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8.	A 65-year-old previously healthy female presented with exertional dyspnea for 04 weeks duration. The following investigations were available on admission. (Normal values are given with bracts)				
	Hemoglobin	6.4 g/dL	(normal 14 – 17 g/dL)		
	MCV	82.4 fL	(normal 76 – 96 fL)		
	WBC	1.0 x 10 ⁹ /L	(normal 4 – 11x10 ⁹ /L)		
	Platelets	76 x10 ⁹ /L	(normal 150 - 400 x 10°/L)		
8.1	What is the hematological diagnosis?			(10 marks)	
8.2	List three pos	ssible causes t	for the diagnosis mentioned in 8.1.	(15 marks)	

8.3	List two featu	ıres either in th	ne history or in the examination that woul	d support each of	
	the conditions	s mentioned in	8.2.	(30 marks)	

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8.4	List five investigations you would arrange for this patient mentioning the expected					
	findings.	(25 marks)				
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8.5	List four precautions you would take on admission to prevent possible c	omplications.				
		(20 marks)				
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