



FACULTY OF MEDICINE, UNIVERSITY OF RUHUNA FINAL EXAMINATION FOR MEDICAL DEGREE – MARCH 2019 MEDICINE PAPER 1

18th March 2019

(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.

A 55-year old man is admitted after bitten by a snake. He believes that the sna cobra.	ake involved is
List five (5) clinical / laboratory features with explanation that are helpful to denvenomation due to cobra from envenomation due to other venomous snak	
envention due to costa nom enventament due to costa nom enventament	(30 marks)

Describe "briefly" the steps in the management of this patient from the time	of admission. (40 marks)
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While the patient was on treatment, patient suddenly developed intense pruritus and dizziness and his blood pressure dropped to 74/40 mmHg.
Describe in brief the steps of the management of this acute complication. (30 marks)
A 78-year old man with diabetes and hypertension for 20 years, complains of shortness of brea for three days. He has woken up with cough and difficulty in breathing three days ago and has remained short of breath since then. He has had a fall 6 days ago and fractured lower end of le fibula. After POP cast, he has been advised to bed-rest for 4 weeks.
List three (3) differential diagnoses for the shortness of breath in this patient. (15 marks)

neir interpretat	cal signs that can diff on.			(35 marks)
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List five (5) inv	estigations that you v	vould arrange to diff	erentiate the illne	sses you mentio
	estigations that you v nd state their relevan		erentiate the illne	sses you mentio (30 marks
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A 24-year old man with type 1 diabetes was brought to the er progressive drowsiness over two hours. On admission his Glashad pulse rate 110 / min and blood pressure of 100/60 mm F	sgow coma s	score was 0	8/15
progressive drowsiness over two hours. On admission his Glashad pulse rate 110 / min and blood pressure of 100/ 60 mm H 98% and capillary blood glucose of 32 mg/ dL.	sgow coma s Ig. He was a	score was 0 febrile and	8/15 had 5
progressive drowsiness over two hours. On admission his Glahad pulse rate 110 / \min and blood pressure of 100/ 60 \min H	sgow coma s Ig. He was a	score was 0 febrile and	8/15
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	Upon initial resuscitation, the patient's level of consciousness did not improve, and he remained
	drowsy. Investigations requested on admission revealed following results.
	Haemoglobin 10.5 g/dL, Total While cell count – 7200/ mm³, with neutrophils 52%, lymphocytes
	23% and eosinophils 13%, platelets – 258,000/ mm³
	Serum sodium – 122 mmol/ L, Serum potassium – 5. 1 mmol/ L, Blood urea- 15 mg/ dL,
	Random blood glucose – 45 mg/ dL
3.3	Based on the above laboratory findings and the poor response to initial management, what other illness in addition to type 1 diabetes is likely to be present in this patient? (10 marks)
3.4	List three (3) physical signs you would elicit in this patient in support of the condition mentioned in 3.3. (30 marks)
3.5	Name one (1) investigation with expected findings that would confirm the diagnosis mentioned in 3.3. (20 marks)
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3.6	What therapy, in addition to insulin is required for this patient in the long-term treatment? (10 marks)

	4)	A 32-year old woman presented with two months history of multiple joint pains small and large joints. Her symptoms did not respond to simple analgesics.	, involving both
	4.1	List three (3) differential diagnoses for this presentation.	(15 marks)
	4.2	Mention two (2) features in the history in support of each of the conditions men	ntioned in 4.1. (15 marks)
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	4.3	List one (1) investigation each you would request in this patient to support or conditions mentioned in 4.1.	(15 marks)
	4.4	Describe the steps in the long-term management of one of the conditions listed	in 4.1. (40 marks)
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4.5	One year after the diagnosis and commencing therapy, patient's haemo 6g/dL. List three (3) likely causes for the low haemoglobin while on trea conditions mentioned in 4.1	
5.	A 67-year old man presented to the Out Patient Department of TH Ka side pleuritic type chest pain and fever for 5 days duration. On exami Scale was 15. He was dyspnoeic with a respiratory rate of 34 per min minute, blood pressure of 100/70 mmHg. On auscultation, bronchial b were heard over the right lower zone.	nation his Glasgow Coma ute, pulse rate is 100 per
	Investigations revealed;	
	Haemoglobin - 11g/dL, WBC - 12500 /mm³, Platelet count - 22500/mn <6), Blood urea - 6.5 mmol/L, serum sodium -129mmol/L, potassium -3	
	Chest radiograph – right lower zone opacification with obliteration of the	he diaphragmatic margin.
5.1	What is the most likely diagnosis?	(10 marks)
5.2	Based on the clinical features and investigations, comment on the seve mentioned in 5.1	rity of the condition (10 marks)

Briefly outline the management of this patient.	(30 marks)

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Despite 7 days of treatment, he continued to have high fever spikes. List four (4) possible
reasons for continuation of fever in this patient	(20 marks)

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List four (4) investigations that you would perform at this stage and indicate ho	w they are
List four (4) investigations that you would perform at this stage and indicate houseful in differentiating reasons mentioned in 5.4	w they are (30 marks)
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useful in differentiating reasons mentioned in 5.4	(30 marks)
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A 35-year old executive officer is admitted with weakness of all four limexamination he has flaccid weakness of upper and lower limbs.	ibs for two days. On
Give three (3) differential diagnoses for his problem.	(15 marks)
List three (3) clinical features each, which will support the three differe	
mentioned in 6.1	(30 marks)

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(a) the state of t	entioned in 6.1 /15 ma
List one (1) investigation each that will confirm the three diagnoses me	entioned in o.1.(15 ma
Briefly discuss the management of one of the conditions mentioned in	6.1 (40 marks)

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A 48-year old man with a history of long term excessive alcohol consumption is detected to he chronic liver disease with portal hypertension. In the clinic, he complains of shortness of brea on exertion for three months. On examination he is pale and the haemoglobin is 7.9 g/dl. List three (3) possible types of anaemia and the likely causes for each types in this patient. (30 marks)	
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7.

7.1

anaemia mentioned in 7.1 and state expected findings.	(20 marks)
His subsequent biochemical Investigations revealed the following results; Serum ferritin - 10 ng/mL (normal 12 - 300 ng/mL)	
Serum B12 level- 168 pmol/L (normal > 118 pmol/L)	
List two (2) steps in treating this patient's anaemia.	(20 marks)
	- et eubeoguer
List three (3) factors you would assess with regard to the treatment of anaemi clinic visits.	(30 marks)

Mention five (5) possible causes for his presentation.	(15 mark

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List two (2) features in the history or examination, supportive of e	each of the diagnoses
mentioned in 8.1	(30 mari
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Name one (1) diagnostic test for the each condition mentioned in	8.1 (20 mar

List three (3) possible nutritional complications that c	ould occur in this patient as a result of
chronic diarrhea.	(15 marks)
Discuss in brief the general and specific management	of one of the conditions mentioned in 8. (20 marks)
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