



(35 marks)

UNIVERSITY OF RUHUNA- FACULTY OF MEDICINE THIRD EXAMINATION FOR MEDICAL DEGREES (PART II) -October 2012

Two and half hours Answer all guestions	
	Answer all questions
Answer each part in a separate book.	
Part A	
1. Briefly describe the drug treatment of the following conpharmacological basis for the use of each drug you me	onditions, indicating the ention.
1.1 Migraine	(40 marks
1.2 Thyrotoxicosis	(60 marks
2.	
2.1 Indicate the pharmacological basis of using	
2.1.1 corticosteroids in bronchial asthma.	(25 marks)
2.1.2 oral rehydration solution (ORS) in moderate de	ehydration. (25 marks)
2.2 A 55 year-old woman with type 2 diabetes mell nausea and vomiting for two days. She was on insufound that her drug compliance was not satisfactory. On examination she was afebrile and was four breaths/min, pulse rate of 100/min and blood investigations revealed random plasma glucose positive urine ketone bodies.	lin to control the diabetes but it was
2.2.1 What is the probable diagnosis of this patient?	(o marks)
2.2.2 List four drugs you would prescribe in the acuto	e management of this patient.
	(10 marks)
2.2.3 Briefly explain the pharmacological basis of usi	ng the drugs you mentioned
in 2.2.2.	(25 magular)

3.

3.1 Briefly describe the clinically important pharmacokinetics of amioderone.	
	(25 marks)
3.2 Explain the pharmacological mechanism of development of hypokalaemia	
due to thiazide diuretics.	(25 marks)
3.3. Write notes on	
3.3.1 controlled clinical trials.	(25 marks)
3.3.2 principles of drug prescribing drug in pregnancy.	(25 marks)
4. Explain the clinical importance of following terms using examples.	
4.1 Adverse drug reactions	(20 marks)
4.2 Phase I metabolism	(20 marks)
4.3 Zero order / saturation kinetics	(20 marks)
4.4 About beta blockers,	•
4.4.1 write the mode of action.	(10 marks)
4.4.2 list five drugs used in the clinical practice.	(10 marks)
4.4.3. list four clinical indications.	(10 marks)
4.4.4. state four contraindications.	(10 marks)
Part C	

5. A 60 year-old female with stable angina was referred to the outpatient clinic by her general practitioner due to the failure of controlling symptoms with sublingual glyceryl trinitrate which was used on regular basis. She was not having any other diseases concurrently and was not taking any other drugs.

5.1 Name three other drugs you would recommend for this	s patient. (15 marks)
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5.2 Explain the pharmacological basis for selecting each drug you mentioned in 4.1 (60 marks)

5.3 Briefly describe the advice you would give to this patient regarding the treatment you mentioned in 4.1 (25 marks)