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UNIVERSITY OF RUHUNA – FACULTY OF MEDICINE ALLIED HEALTH SCIENCES DEGREE PROGRAMME THIRD BPHARM PART I EXAMINATION - JANUARY 2017 PH 3153 PHARMACOLOGY III (SEQ)

TIME: THREE HOURS

INSTRUCTIONS

- Answer <u>all</u> questions in the given answer books.
- No paper should be removed from the examination hall.
- Do not use any correction fluid.
- Use illustrations where necessary.

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1.			
1.1	Briefly explain the mechanism of action of sulfonamides using a schematic diagram.		
		(40 marks)	
1.2	State four adverse effects of sulfonamides.	(10 marks)	
1.3	Briefly discuss the pharmacokinetics of methotrexate.	(40 marks)	
1.4	List two drug interactions of methotrexate.	(10 marks)	
2.			
2.1	Briefly explain the mechanism of action of monobactams.	(20 marks)	
2.2	Briefly discuss the mechanism of resistance for cell wall synthesis inhibitors.	(30 marks)	
2.3	List four adverse effects of penicillin.	(10 marks)	
2.4	Briefly explain the pharmacokinetics of cephalesporin.	(30 marks)	
2.5	Give four adverse effects of vancomycin.	(10 marks)	
3.			
3.1		(25 manks)	
	3.1.1 Discuss the uses of purgatives.	(25 marks)	
	3.1.2 Compare and contrast ergometrine and oxytocin.	(25 marks)	
3.2		(10 marks)	
	3.2.1 List two parenteral nutrition preparations.		
	3.2.2 Describe complications occur during IV parenteral nutrition therapy.	(40 marks)	
4.			
4.1	List the types of insulin according to the onset of action.	(10 marks)	
4.2	List four adverse effects of insulin.	(10 marks)	
4.3	List indications for insulin therapy. (10 marks)		
4.4	.4 Describe the advices that you would give to a patient who is going to be started on it		
	therapy.	(70 marks)	

5.			
5.1	Briefly describe the mechanism of action of warfarin.	(25 marks)	
5.2	List four indications for warfarin.	(10 marks)	
5.3	List three adverse effects of warfarin.	(10 marks)	
5.4	Briefly describe the reason for warfarin being contraindicated during pregnant	cy.	
	JOH REPORT SEPTIT	(15 marks)	
5.4	List eight advices you would give to a patient who is going to take warfarin for the first		
	time.	(40 marks)	
6.	A second and a second a second and a second		
6.1	Briefly describe the effects of thyroid hormones on intermediary metabolism.	(15 marks)	
6.2	List four signs of hyperthyroidism.	(10 marks)	
6.3	Briefly describe the mechanism of action of propylthiouracil in the treatment	of	
	hyperthyroidism.	(30 marks)	
6.4	State the advantages and disadvantages of using radioactive iodine as a treatn	nent for	
	hyperthyroidism.	(20 marks)	
6.5	Over production of calcitonin can lead to hypocalcemia. List three drugs that	can be used	
	in the management of hypocalcemia.	(10 marks)	
6.6	Briefly describe the functions of parathyroid hormone.	(15 marks)	

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