UNIVERSITY OF JAFFNA, SRI LANKA SECOND EXAMINATION FOR MEDICAL DEGREES – PART II FEBRUARY 2011

PHARMACOLOGY Paper II

Date: 23.02.2011 Time: 2 hours

Answer all four questions

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1.	Explain:	
	1.1. the rationale for choosing different routes for drug administration taking	
	bronchial asthma as example.	(50 marks)
	1.2. the pharmacokinetic basis for	
	1.2.1. kernicterus in neonates treated with sulphonamide.	(25 marks)
	1.2.2. interaction between lithium and thiazide.	(25 marks)
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۷.	Explain the pharmacological basis for using	
	2.1. misoprostol in NSAID induced gastric ulcer.	(25 marks)
	2.2. diazepam as anaesthetic premedication.	(25 marks)
	2.3. iodine in the preparation for thyroidectomy.	(25 marks)
	2.4. desferrioxamine in iron overload.	(25 marks)
3.		
	3.1. Name 3 different groups of drugs that act on rennin-angiotensin system.	(15 marks)
	3.2. Briefly describe the mechanisms of actions of the drugs mentioned in 3.1.	(45 marks)
	3.3. Name 3 indications for each of the drug group mentioned above.	(20 marks)
	3.4. Mention 5 adverse effects of each of the above-mentioned drug groups.	(20 marks)

- 4. A 20year old boy was admitted to the emergency unit with history of ingestion of a pesticide. He complained of vomiting, abdominal pain, difficulty in breathing and weakness of limbs. On examination he was conscious but, restless, sweaty and the pupils were constricted. His heart rate was 48/ minute and auscultation revealed bilateral rhonchi and coarse crepitations. The diagnosis was made as organophosphate poisoning.
 - 4.1. Explain the pharmacological basis for the signs and symptoms in this patient.
 - 4.2. Describe the drug treatment of this patient. (20 marks)

(60 marks)

4.3. Explain the rationale for using the drugs mentioned in 4.2. (20 marks)