

**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**

**1. Explain:**

**11 . 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)**

**2. 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)**

**3.1. 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. (60 marks)**
- 4.2. Describe the drug treatment of this patient. (20 marks)**
- 4.3. Explain the rationale for using the drugs mentioned in 4.2. (20 marks)**

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