

**UNIVERSITY OF JAFFNA, SRI LANKA**  
**SECOND EXAMINATION FOR MEDICAL DEGREES PART II (1s<sup>t</sup>)**  
**August 2013**  
**PHARMACOLOGY - Paper II**

**Date: 29.08.2013**

**Time: 02 hours**

**ANSWER ALL THE FOUR. QUESTIONS.**

**Answer each Question in separate answer book.**

- 1. Explain the pharmacological basis for using**
  - 1.1. benzathinepenicillin in prophylaxis of rheumatic fever. (25 marks)**
  - 1.2. high dose atorvastatin in the immediate treatment of myocardial infarction. (25 marks)**
  - 1.3. misoprostol to prevent NSAIDs-induced peptic ulcer disease. (25marks)**
  - 1.4. sodium cromoglycate in the management of exercise induced asthma. (25marks)**
- 2.**
  - 2.1. Describe the pharmacokinetics of**
    - 2.1.1. carbamazepine. (20 marks)**
    - 2.1.2. sodium valproate. (20 marks)**
  - 2.2. Explain briefly the pharmacodynamics of**
    - 2.2.1. carbamazepine. (10 marks)**
    - 2.2.2. sodium valproate. (10 marks)**
  - 2.3. List two (02) clinically important adverse drug reactions of**
    - 2.3.1. carbamazepine. (10 marks)**
    - 2.3.2. sodium valproate. (10 marks)**
  - 2.4. Discuss the term "risk versus benefit assessment" in the context of antiepileptic drug treatment. (20 marks)**
- 3.**
  - 3.1. Classify insulins based on the duration of action with example. (30 marks)**
  - 3.2. Describe the insulin regimens used in the treatment of type 1 diabetes mellitus. (45 marks)**
  - 3.3. Write the advice that you would give to the patients when prescribing insulin. (25 marks)**
- 4. Mrs. Ranjani was a 25 year old housewife. She underwent cardiac valve replacement 2 years ago and her cardiac functions were stable. She was on warfarin 10mg daily. Mrs. Ranjani wanted to have a baby.**
  - 4.1. Describe the anticoagulant therapy that you would plan for her during pregnancy. (30 marks)**
  - 4.2. Explain the rationale for preferring the anticoagulant mentioned in 4.1. for this patient. (30 marks)**
  - 4.3. Describe the precautions that have to be taken when using the drugs mentioned in 4.1. (40 marks)**