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UNIVERSITY OF JAFFNA, SRI LANKA  
BACHELOR OF PHARMACY  
FOURTH YEAR FIRST SEMESTER EXAMINATION, JANUARY 2016  
PHACP 4102 CLINICAL PHARMACY

Date: 22.01.2016.

Time: 2 Hours

ANSWER ALL SIX QUESTIONS.

1.
  - 1.1 Explain the importance of clinical pharmacy. (30 Marks)
  - 1.2 List and describe the various functions of clinical pharmacy. (70 Marks)
  
2.
  - 2.1 Define the following pharmacokinetic terms.
    - 2.1.1 Therapeutic window. (10 Marks)
    - 2.1.2 Non linear pharmacokinetics. (10 Marks)
    - 2.1.3 One compartment model. (10 Marks)
    - 2.1.4 Total body clearance. (10 Marks)
  - 2.2
    - 2.2.1 Drug X was given in a single IV bolus dose of 200 mg to a patient. Apparent volume of distribution of drug X was 8 litres. Find out the initial plasma concentration of drug X. (15 Marks)
    - 2.2.2 To maintain the initial plasma drug concentration, find out the rate of infusion of drug X. (Total clearance of drug X is 5.8 l/h) (15 Marks)
  - 2.3 List the applications of clinical pharmacokinetics. (30 Marks)
  
3.
  - 3.1 Explain why dose adjustment is required in elderly patients. (30 Marks)
  - 3.2 Briefly explain how drug interaction influence on the following process.
    - 3.2.1 Drug absorption. (30 Marks)
    - 3.2.2 Drug metabolism. (40 Marks)
  
4.
  - 4.1 What is therapeutic drug monitoring? (10 Marks)
  - 4.2 Give the reasons for the need of therapeutic drug monitoring. (60 Marks)
  - 4.3 Why blood sample is taken 8 hours after oral administration of digoxin for therapeutic drug monitoring. (20 Marks)
  - 4.4 List five other drugs for which therapeutic drug monitoring is recommended. (10 Marks)
  
5.
  - 5.1 Define the following terms.
    - 5.1.1 Pharmacovigilance. (10 Marks)
    - 5.1.2 Adverse drug reaction. (10 Marks)
  - 5.2 Briefly describe the role of pharmacist in the management of adverse drug reaction. (40 Marks)
  - 5.3 List and explain the WHO causality assessment scale for the adverse drug reaction. (40 Marks)

- 6.
- 6.1 What are the functions of poison information centre? (20 Marks)
  - 6.2 Enumerate the facilities that are required for establishing poison information centre. (30 Marks)
  - 6.3 Describe the mechanisms of action of antidotes. (30 Marks)
  - 6.4 Briefly explain the role of the following in the management of poisoning.
    - 6.4.1 Cathartics. (10 Marks)
    - 6.4.2 Activated charcoal. (10 Marks)

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