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UNIVERSITY OF JAFFNA, SRI LANKA
BACHELOR OF PHARMACY

FOURTH YEAR FIRST SEMESTER EXAMINATION - FEBRUARY 2017

PHACP 4102 CLINICAL PHARMACY

Date: 15.02.2017.

Time: 02 Hours

ANSWER ALL SIX QUESTIONS.

1.
 - 1.1 Describe the steps in responding to drug information queries. (70 marks)
 - 1.2 Describe the basic skills that are required in the practice of clinical pharmacy. (30 marks)

2.
 - 2.1 Define the following terms.
 - 2.1.1 Population pharmacokinetics. (10 marks)
 - 2.1.2 Apparent volume of distribution. (10 marks)
 - 2.1.3 Total body clearance. (10 marks)

 - 2.2 After IV bolus administration of 500 mg of a drug, an initial plasma drug concentration was 05 mg/L. If a patient receives a single IV bolus dose of 2 g of the above drug, calculate the expected initial plasma drug concentration. (20 marks)

 - 2.3 An adult patient is administered 100 mg of drug 'X' 8 hourly. It is excreted unchanged by kidneys. This patient's creatinine clearance is 75 ml/min. Normal creatinine clearance is 130 ml/min. Calculate the adjusted dose for this patient. (20 marks)

 - 2.4 Explain how pharmacokinetic process of drugs are altered in obese peoples. (15 marks)

 - 2.5 List the pathological conditions that affect the protein-drug binding. (15 marks)

3.
 - 3.1 List the criteria for the World Health Organization causality assessment for adverse drug reaction. (20 marks)
 - 3.2 List the categorization of WHO causality assessment scale. (20 marks)
 - 3.3 Briefly explain how drug interaction influence on the following processes.
 - 3.1 Drug excretion. (30 marks)
 - 3.2 Drug metabolism (30 marks)

- 4.
- 4.1 Briefly describe the patient-related factors that affect the occurrence of adverse drug reaction. (60 marks)
 - 4.2 Explain the role of spontaneous reporting in the detection of adverse drug reaction? (40 marks)
- 5.
- 5.1 Give the indications for therapeutic drug monitoring. (60 marks)
 - 5.2 Briefly explain the factors that should be considered in the interpretation of results of plasma drug concentration. (40 marks)
- 6.
- 6.1 Write an account on
 - 6.1.1 scope of clinical pharmacy. (30 marks)
 - 6.1.2 heavy metal poisoning. (30 marks)
 - 6.2 Briefly explain the role of following drugs in the management of drug dependence.
 - 6.2.1 Naltrexone. (20 marks)
 - 6.2.2 Disulfiram. (20 marks)

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