

**UNIVERSITY OF JAFFNA**  
**BACHELOR OF PHARMACY**  
**FOURTH YEAR FIRST SEMESTER EXAMINATION – FEBRUARY 2018**  
**PHACP 4132 CLINICAL PHARMACY**

Date: 23.02.2018.

Time: 02 Hours

**ANSWER ALL SIX QUESTIONS.**

**Answer part A and part B in separate answer books.**

**PART A**

1.
  - 1.1 Give an example for the following types of adverse drug reactions.
    - 1.1.1 Type A adverse drug reaction (05 marks)
    - 1.1.2 Type B adverse drug reaction (05 marks)
  - 1.2 Explain the mechanisms responsible for the adverse drug reactions mentioned in the 1.1. (20 marks)
  - 1.3 Write an account on
    - 1.3.1 adverse drug reaction reporting and monitoring. (30 marks)
    - 1.3.2 causality assessment of adverse drug reactions. (40 marks)
2.
  - 2.1 Describe the duties of clinical pharmacist. (50 marks)
  - 2.2 As a pharmacist, explain the steps in responding to queries regarding poison information. (50 marks)
3.
  - 3.1 Explain the term 'Therapeutic Drug Monitoring' (TDM). (10 marks)
  - 3.2 Explain the characteristics that are required to make a drug suitable for TDM. (30 marks)
  - 3.3 Explain five (05) circumstances where TDM is indicated. (40 marks)
  - 3.4 List five (05) drugs for which TDM is recommended. (20 marks)
4.
  - 4.1 List 04 (four) poisonous plants which act on nervous system. (20 marks)
  - 4.2 Briefly explain the function of following in the management of poisoning.
    - 4.2.1 Activated charcoal (25 marks)
    - 4.2.2 Dimercaprol (25 marks)
    - 4.2.3 Oximes (30marks)

- 5.
- 5.1 Write an account on population pharmacokinetics. (30 marks)
- 5.2 An adult patient is administered the drug as a 75 mg dose every 12 hours orally. His creatinine clearance is 65 ml/min. (normal renal clearance is 130 ml/min). Bioavailability of the drug is 60%. Calculate the adjusted dosage regimen for this patient. (30 marks)
- 5.3 Write the advice you would give to a patient with Chronic Obstructive Pulmonary Disease(COPD) when dispense Inhaled Beclometasone (Metered Dose Inhaler) which is prescribed as 500 micrograms, two times a day. (one dose is equivalent to 250 micrograms of Beclometasone) (40 marks)

**PART - B**

- 6.
- 6.1 In the context of substance abuse, explain the terms. (10 marks)
- 6.1.1 Dependence (10 marks)
- 6.1.2 Addiction (15 marks)
- 6.2 Describe the mechanism of actions of drugs of abuse. (30 marks)
- 6.3 List the effects of chronic alcohol usage. (20 marks)
- 6.4 Describe the effects of abrupt withdrawal of alcohol in a patient who has developed physical dependence. (15 marks)
- 6.5 Name the three (03) drugs that are used to treat alcohol withdrawal syndrome. (15 marks)

XXXXXXXXXXXX