

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

**Date: 22.09.2018.**

**Time: 02 Hours**

Answer All Six Questions.

Answer parts A and B in separate answer books.

**PART – A**

1. Describe the
  - 1.1 functions of clinical pharmacists. (55 Marks)
  - 1.2 sources of drug information. (45 Marks)
  
2.
  - 2.1 What is therapeutic drug monitoring (TDM)? (10 Marks)
  - 2.2 Enumerate the indications for TDM. (30 Marks)
  - 2.3 Explain the importance of sampling time in the TDM. (30 Marks)
  - 2.4 Explain the conditions at which plasma protein- drug binding is affected. (30 Marks)
  
3.
  - 3.1 Briefly describe the different drug - drug interactions that occur at the site of absorption. (70 Marks)
  - 3.2 Explain the mechanism involved in the following drug – drug interactions.
    - 3.2.1 Warfarin and Aspirin (10 Marks)
    - 3.2.2 Amitriptyline and Phenytoin (10 Marks)
    - 3.2.3 Enalapril and Spiranolactone (10 Marks)
  
4.
  - 4.1 Explain how following act as an antidote with examples.
    - 4.1.1 Activated charcoal (30 Marks)
    - 4.1.2 Dimercaprol (30 Marks)
  - 4.2 Infused rate of drug at 35 mg/h into patient who had a clearance for this drug is 5.8 l/h. Find out the steady state plasma concentration. (20 Marks)
  - 4.3 Adult dose of drug 'X' is 500 mg 12 hourly. Drug 'X' is excreted unchanged by kidney. Calculate the daily dose for a patient with creatinine clearance 90 ml/min. (Normal creatinine clearance – 130 ml/min). (20 Marks)

**PART – B**

- 5.
- 5.1 Name the major ingredients of tobacco smoke. (10 Marks)
  - 5.2 Describe the
    - 5.2.1 acute effect of smoking tobacco. (25 Marks)
    - 5.2.2 chronic effect of smoking tobacco. (25 Marks)
  - 5.3 Explain the differences between cigarette smoking and cigar/pipe smoking. (20 Marks)
  - 5.4 Describe the aids to give up tobacco smoking. (20 Marks)
- 6.
- 6.1 Define 'pharmacovigilance'. (20 Marks)
  - 6.2 Explain the advantages and disadvantages of voluntary reporting in drug safety. (40 Marks)
  - 6.3 Describe the existing drug safety monitoring system in Sri Lanka. (40 Marks)

XXXXXXXXXXXXXXXXXX