UNIVERSITY OF JAFFNA, SRI LANKA

FACULTY OF ALLIED HEALTH SCIENCES

SECOND YEAR FIRST SEMESTER EXAMINATION IN BPharmHons-2022

PHACL 2133 PHARMACOLOGY & PHARMACOTHERAPY I

Paper II

Date: 24.11.2023

Time: 02 hours

ANSWER ALL FOUR QUESTIONS

1.

1.1. List four (04) routes of drug administration that by-pass hepatic first pass metabolism. Give an example for each route. (20 Marks)

1.2. Briefly describe the factors that affect the oral bioavailability of drugs. (25 Marks)

1.3. What is therapeutic drug monitoring? (10 Marks)

1.4. List four (04) situations for which therapeutic drug monitoring is needed. (20 Marks)

1.5. Briefly explain the clinical significance of drug induced enzyme induction. (25 Marks)

2.

2.1. Classify β-lactam antibiotics with an example for each class. (20 Marks)

2.2. Explain the mechanism of action of β-lactam antibiotics. (30 Marks)

2.3. Briefly describe the adverse effects of β-lactam antibiotics. (25 Marks)

2.4. Explain why combination of β-lactam antibiotics and aminoglycosides is used in treating Gram-positive bacterial infections. (25 Marks)

3. Write an account on:

3.1. plasma protein binding of drugs. (30 Marks)

3.2. amphotericin B. (30 Marks)

3.3. adverse drug reaction reporting system in Sri Lanka. (40 Marks)

4. Describe the pharmacological basis for the following:

4.1. Combination of primaquine and chloroquine in the treatment of malaria. (30 Marks)

4.2. Preference of single daily dose of gentamicin over divided doses. (30 Marks)

4.3. Usage of fixed-dose combination of anti-tubercular drugs. (40 Marks)