

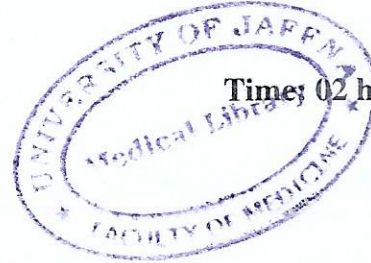
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UNIVERSITY OF JAFFNA, SRI LANKA
FACULTY OF ALLIED HEALTH SCIENCES
SECOND YEAR FIRST SEMESTER EXAMINATION IN BPharmHons-2022
PHACL 2143 PHARMACOLOGY & PHARMACOTHERAPY II (Old syllabus)

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)