

**UNIVERSITY OF JAFFNA, SRI LANKA**  
**FACULTY OF ALLIED HEALTH SCIENCES**  
**SECOND YEAR FIRST SEMESTER EXAMINATION IN BPharmHons-2023**  
**PHACL 2133 PHARMACOLOGY & PHARMACOTHERAPY I - Paper II**

Date: 13.12.2024

Time: 02 Hours

**ANSWER ALL FOUR QUESTIONS**

1.

- 1.1. List four (04) routes available for self-administration of medications. (20 Marks)  
Give one (01) example of medications administered through each route.
- 1.2. Describe the factors affecting the bioavailability of orally administered medications. (30 Marks)
- 1.3. Briefly explain the
- 1.3.1 advantages of intravenous administration of medications. (25 Marks)
- 1.3.2 disadvantages of intravenous administration of medications. (25 Marks)

2.

- 2.1. List three (03) main groups of bacterial protein synthesis inhibitors. Give one (01) example for each group. (15 Marks)
- 2.2. List two (02) indications of each group of bacterial protein synthesis inhibitors mentioned in 2.1. (25 Marks)
- 2.3. Briefly describe the important adverse effects of each group of bacterial protein synthesis inhibitors mentioned in 2.1. (45 marks)
- 2.4. Briefly explain the reason for combining bactericidal protein synthesis inhibitors with  $\beta$ -lactam antibiotics in the treatment of Gram-positive bacterial infections. (15 Marks)

3.

Write an account on

- 3.1. griseofulvin. (30 Marks)
- 3.2. therapeutic drug monitoring. (30 Marks)
- 3.3. fixed-dose combination of anti-tubercular drugs. (40 Marks)

4.

Explain the pharmacological basis for the following:

- 4.1. Using adrenaline and lidocaine for local anaesthesia. (25 marks)
- 4.2. Using benzathine penicillin G in rheumatic fever prophylaxis. (25 Marks)
- 4.3. Increasing the dose of warfarin during rifampicin therapy. (25 Marks)
- 4.4. Combining proguanil and sulfamethoxazole for the treatment of malaria. (25 Marks)