

UNIVERSITY OF JAFFNA, SRI LANKA  
BACHELOR OF PHARMACY  
SECOND YEAR FIRST SEMESTER EXAMINATION in BPharm Honours – 2021  
PHARMACOLOGY & PHARMACOTHERAPY I – PHACL 2143 (old syllabus)  
Paper II

Date: 27.01.2023

Time: 02 hours

ANSWER ALL FOUR QUESTIONS

1.
  - 1.1. Name five (05) different dosage forms and mention one example of medicine for each. (30 Marks)
  - 1.2. Describe the factors that influence the selection of route of administration. (40 Marks)
  - 1.3. Discuss the advantages and disadvantages of rectal administration. (30 Marks)
  
2. Write an account on
  - 2.1. protein binding. (25Marks)
  - 2.2. drug- drug interactions. (25 Marks)
  - 2.3. first-order kinetics. (25 Marks)
  - 2.4. therapeutic drug monitoring. (25 Marks)
  
3.
  - 3.1. List the groups of antibacterial agents that act by inhibiting nucleic acid synthesis. Give one (01) example for each group. (20 Marks)
  - 3.2. Explain the following terms
    - 3.2.1. Time dependent killing (10 marks)
    - 3.2.2. Concentration dependent killing (10 Marks)
  - 3.3. Give two examples of antibacterial agents that shows
    - 3.3.1. Time dependent killing (10 marks)
    - 3.3.2. Concentration dependent killing (10 marks)
  - 3.4. Describe the measures to prevent the development of antimicrobial resistance. (40 Marks)
  
4. Describe the pharmacological basis for the following
  - 4.1. using multidrug therapy in the treatment of tuberculosis. (25 Marks)
  - 4.2. using benzathine penicillin in rheumatic fever prophylaxis. (25 Marks)
  - 4.3. using primaquine in the malaria treatment. (25 Marks)
  - 4.3. combining adrenaline with lignocaine for local anaesthesia. (25 marks)