



**UNIVERSITY OF RUHUNA – FACULTY OF ALLIED HEALTH SCIENCES
DEPARTMENT OF PHARMACY**

FOURTH BPHARM PART I EXAMINATION – MARCH/APRIL 2021

PH 4132 APPLIED PHARMACOLOGY - SEQ

TIME: TWO HOURS

INSTRUCTIONS

- There are four questions in parts **A** and **B** in this paper.
- No paper should be removed from the examination hall.
- Do not use any correction fluid.
- Use illustrations where necessary.

01. Micro-dosing approach could 'accelerate' drug development without compromising clinical safety.

- 1.1 List four advantages of micro-dosing in Phase 0 studies. *(20 marks)*
- 1.2 State three limitations of micro-dosing in Phase 0 studies. *(15 marks)*
- 1.3 Briefly describe important characteristics of single ascending and multiple ascending dose studies in Phase 1 clinical trials. *(30 marks)*
- 1.4 List two types of phase II clinical trials. *(05 marks)*
- 1.5 Explain the determinants of phase I and phase II clinical trials. *(30 marks)*

02.

- 2.1 Mention five types of information that should be included in a participant information sheet? *(15 marks)*
- 2.2 Briefly describe the below options that are considered in doing payments to the participants of a research study.
- 2.2.1. Payment as an incentive *(15 marks)*
- 2.2.2. Payment as compensation *(15 marks)*
- 2.3 Briefly describe the five steps of evidence-based medicine practice? *(25 marks)*
- 2.4 Describe the unethical practices occurred during the Tuskegee Syphilis Experiment. *(30 marks)*

03.

- 3.1 What is meant by a 'valid prescription'? (10 marks)
- 3.2 Briefly explain the difference between subscription and inscription parts of a prescription? (20 marks)
- 3.3 "Prescription is a part of the professional relationship between the prescriber, the pharmacist, and the patient." Discuss the above statement. (35 marks)
- 3.4 Define the term 'Essential Medicine List'. (15 marks)
- 3.5 Write four uses of having an Essential Medicine List for a country. (20 marks)

04.

- 4.1 Write two objectives of pharmacovigilance. (10 marks)
- 4.2 Design an 'information collection form' that can be used to report adverse drug reactions of medicines. (30 marks)
- 4.3 Write five types of cytotoxic drugs, giving one example for each. (20 marks)
- 4.4 Write four common side effects of cytotoxic drugs. (10 marks)
- 4.5 What are the factors to be considered when choosing a chemo treatment for a patient? (10 marks)
- 4.6 Describe the role of a pharmacist in controlling medication errors. (20 marks)

@@@@@@@@@@@@@@