



UNIVERSITY OF RUHUNA – FACULTY OF ALLIED HEALTH SCIENCES

DEPARTMENT OF PHARMACY

FOURTH BPHARM PART I EXAMINATION - JUNE 2022

PH 4132 APPLIED PHARMACOLOGY - SEQ

TIME: TWO HOURS

INSTRUCTIONS

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

1.

- 1.1. Define clinical trials. *(10 marks)*
- 1.2. Describe the similarities and differences among the phase I and phase II of a clinical trial. *(40 marks)*
- 1.3. Briefly explain the incidents that led to establish of Nuremberg Code. *(20 marks)*
- 1.4. Name two guidelines developed after the Nuremberg code to safeguard the rights of the human participants. *(10 marks)*
- 1.5. Briefly discuss the ways of minimizing the suffering for animals in preclinical trials. *(20 marks)*

2.

- 2.1. Write short notes on each of the following.
 - 2.1.1. Phase III of a clinical trial *(25 marks)*
 - 2.1.2. Role of pharmacist in minimizing medication errors *(25 marks)*
 - 2.1.3. Importance of Pharmacovigilance *(25 marks)*
 - 2.1.4. Effect of liver diseases on medicines *(25 marks)*

3.

- 3.1. What is the difference between medication review and medication reconciliation? *(10 marks)*
- 3.2. Explain the pregnancy categories according to FDA. *(30 marks)*
- 3.3. "Risk of teratogenicity is high during first trimester". Explain this statement giving three examples. *(30 marks)*
- 3.4. Name two drugs that are contraindicated in breastfeeding. *(05 marks)*
- 3.5. Briefly explain five factors that should be considered when selecting medicines for the Essential Medicines List in a country. *(25 marks)*

4.

- 4.1. What is meant by 'Evidence Based Medicine'?' *(10 marks)*
- 4.2. Explain the five steps of Evidence based medicine. *(30 marks)*
- 4.3. List the information included in the 'inscription' part of a prescription. *(10 marks)*
- 4.4. Explain the changes of drug absorption in pediatric population. *(30 marks)*
- 4.5. Briefly explain two effects of drugs in renal failure. *(20 marks)*

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