



UNIVERSITY OF RUHUNA – FACULTY OF ALLIED HEALTH SCIENCES

DEPARTMENT OF PHARMACY

FOURTH BPHARM PART I EXAMINATION – DECEMBER 2017

PH4132 APPLIED PHARMACOLOGY (SEQ)

TIME: TWO HOURS

INSTRUCTIONS

- There are **four (04)** questions.
 - Answer **all** questions in the books provided.
 - No paper should be removed from the examination hall.
 - Do not use any correction fluid.
 - Use illustrations where necessary.
1. Answer the following questions in relation to the management of medication errors.
 - 1.1. Indicate **five** common causes for medication errors. *(20 marks)*
 - 1.2. State **four** methods of monitoring medication errors. *(20 marks)*
 - 1.3. Briefly describe the clinical importance of reporting medication errors. *(30 marks)*
 - 1.4. As a clinical pharmacist, develop a hospital medication error reporting model. *(30 marks)*

 2.
 - 2.1. In relation to the process of drug designing and development,
 - 2.1.1. describe the phases of clinical trials. *(40 marks)*
 - 2.1.2. name the responsible regulatory authority in drug registration in Sri Lanka? *(10 marks)*
 - 2.2.
 - 2.2.1. State the dose adjustment in maintenance dose and loading dose in renal impairment. *(20 marks)*
 - 2.2.2. Compare the pharmacokinetic parameters of neonates with adults. *(30 marks)*

 3. Answer **all** parts.
 - 3.1. Indicate the pharmacokinetic changes occurring in pregnancy. *(20 marks)*
 - 3.2. Briefly describe the FDA categories of A, B, C, D and X in relation to the prescription during pregnancy. *(50 marks)*
 - 3.3. What are the factors which can affect the mechanisms of drug transfer from mother to fetus? *(30 marks)*

 4. Answer **all** parts.
 - 4.1. Describe the advantages and limitations of evidence-based medicine (EBM), and its role in improving prescribing decisions. *(50 marks)*
 - 4.2. Briefly describe the following **two** terms used in ethical issues in pharmacy research.
 - 4.2.1. Beneficence *(25 marks)*
 - 4.2.2. Justice *(25 marks)*

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