



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

**DEPARTMENT OF PHARMACY**

**FOURTH BPHARM PART I EXAMINATION –OCTOBER/NOVEMBER 2019**

**PH 4132 APPLIED PHARMACOLOGY (SEQ)**

**TIME: TWO HOURS**

**INSTRUCTIONS**

- There are four (04) questions in Part A,B,C and Part D of the SEQ paper.
- Answer **each part** in separate booklet provided.
- No paper should be removed from the examination hall.
- Do not use any correction fluid.
- Use illustrations where necessary.

**Part A**

**01.**

1.1 Describe the term evidence-based medicine (EBM). (50 marks)

1.2 Briefly describe the following **two** characters discussed in ethical issues in Pharmacy research.

1.2.1 Autonomy (25 marks)

1.2.2 Justice (25 marks)

**Part B**

**02.**

2.1 Assume that you have developed a new anti-diabetic drug. Briefly describe the set of procedures involved in medical research and drug development to study the safety and efficacy of the new drug before you obtain regulatory approval to market it. (60 marks)

2.2 In the drug development process 'target selection' is influenced by a complex balance of scientific, medical and strategic considerations.

2.2.1 Define the terms "target identification" and "target validation" (20 marks)

2.2.2 Briefly describe the techniques involved in target identification? (20 marks)

Part C

03.

3.1 State **four** factors which can be used for selecting medicines for essential medicines.

(10 marks)

3.2 Define the term "medication error".

(10 marks)

3.3 Briefly describe **five** strategies, which can be used by a pharmacist for preventing medication errors.

(40 marks)

3.4 State the basic steps of active pharmacovigilance drug safety monitoring procedure.

(10 marks)

3.5 Briefly describe the essential data elements which should be included in the pharmacovigilance adverse event reporting form.

(30 marks)

Part D

04.

4.1 Briefly discuss **five** ways you could promote adherence to a medication regimen in a paediatric patient.

(40 marks)

4.2 List **five** groups of cytotoxic drugs and give **two** examples for each group.

(20 marks)

4.3

4.3.1 Define the term "teratogen"

(05 marks)

4.3.2 Briefly discuss the categories of Food and Drug administration (FDA) regarding the drugs used in pregnancy.

(35 marks)

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