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UNIVERSITY OF RUHUNA – FACULTY OF ALLIED HEALTH SCIENCES

DEPARTMENT OF PHARMACY

FOURTH B.PHARM PART I EXAMINATION – JUNE 2018

PH 4132 APPLIED PHARMACOLOGY (SEQ)

TIME: TWO HOURS

INSTRUCTIONS

- There are four (04) questions in Parts A, and <sup>B, C</sup> of the SEQ paper.
- Answer **each** part in separate booklet provided.
- Do not use any correction fluid.
- Marks will be deducted for illegible hand writing.

PART A

01.

- 1.1. List the different groups of cytotoxic drugs available in an indoor pharmacy. (15 marks)
- 1.2. Describe the pharmacological basis of using **one** of the drugs listed in 1.1 for the treatment of breast carcinoma. (25 marks)
- 1.3. Compare parallel group design with a cross over design of a clinical trial. (25 marks)
- 1.4. Plan a research using the PICO model for the analysis of the following clinical problem.

65 year-old woman presented with recurrent episodes of difficulty in breathing and urticarial rash after taking celecoxib 100 mg bd dose for 5 days for osteoarthritis of her knee. She has had similar type of clinical presentation twice with the celecoxib during the last 6 months. (35 marks)

PART B

02.

- 2.1. Describe the common ethical issues related to the pharmacy practice encountered by a researcher. (50 marks)
- 2.2. Describe the following terms used in research ethics. (50 Marks)
  - 2.2.1. Justice
  - 2.2.2. Autonomy



**PART C**

03. Organ impairment should be closely monitored in high risk patients.

3.1. How can the hepatic function be evaluated? (20 marks)

3.2. List **five** complications of chronic liver disease. (15 marks)

3.3. Why would a patient with chronic liver disease be prescribed with lactulose syrup? Briefly explain (20 marks)

3.4. State the importance of monitoring renal function. (15 marks)

3.5. How can the symptoms/signs mentioned below be corrected in patients with renal impairment? (30 marks)

3.5.1. Fluid retention

3.5.2. Raised Serum Phosphate

3.5.3. Anaemia

04. The chief pharmacist in your hospital plans to implement a pharmacovigilance system, to promote safe use of medicines.

4.1. What is Pharmacovigilance? (06 marks)

4.2. List **four** aims of a pharmacovigilance system. (16 marks)

4.3. Write down the recommendations you would give to pharmacists in order to promote safe use of medicines in the hospital (28 marks)

**PART D**

4.4. Define the term "controlled substance". (10 marks)

4.5. Describe the specific factors that should be included in a prescription of a controlled substance. (40 marks)

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