



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

**DEPARTMENT OF PHARMACY**

**THIRD BPHARM PART I EXAMINATION – JULY 2018**

**PH 3153 PHARMACOLOGY III-(SEO)**

**TIME: THREE HOURS**

**INSTRUCTIONS**

- There are six (06) questions in parts A,B, C and D of the paper.
- Answer **each part** in a separate booklet.
- Do not use any correction fluid.
- Marks will be deducted for illegible hand writing.



**PART A**

1. Answer all parts.
  - 1.1. Indicate the mode of action of
    - 1.1.1. metoclopramide. (20 marks)
    - 1.1.2. ondansetron. (20 marks)
  - 1.2. Prokinetics are used in the treatment of gastroparesis. List **three** drugs which show prokinetics effects. (15 marks)
  - 1.3. Briefly describe your advisory role as a community pharmacist during dispensing of oral contraceptive pills. (25 marks)
  - 1.4. List an example for
    - 1.4.1. rapid acting insulin. (05 marks)
    - 1.4.2. short acting insulin. (05 marks)
    - 1.4.3. intermediate acting insulin. (05 marks)
    - 1.4.4. long acting insulin. (05marks)

2. Answer all parts
  - 2.1. Indicate the clinical uses and expected therapeutic effects of
    - 2.1.1. depomedroxy progesterone. (25marks)
    - 2.1.2. goserelin (25marks)
  - 2.2. Describe the pharmacological basis of using
    - 2.2.1. metformin in type II diabetes mellitus (25 marks)
    - 2.2.2. sitagliptin in postprandial hyperglycaemia (25 marks)

**PART B**

3. Answer all parts
- 3.1. Briefly describe pharmacological reasons for
- 3.1.1. formation of aspirin induced gastric ulcer (25 marks)
- 3.1.2. use of omeprazole in peptic ulcer (25 marks)
- 3.2. Describe the mode of action of corticosteroids. (20 marks)
- 3.3. State different types of corticosteroid drugs seen in the community pharmacy. (10 marks)
- 3.4. List the advice you would give to a patient on oral steroids. (20 marks)

**PART C**

4. Answer all parts
- 4.1. State **two** types of oral iron preparations. (10 marks)
- 4.2. State **two** types of iron preparations those are used for parenteral iron therapy. (20 marks)
- 4.3. Describe the indications and adverse effects of iron therapy. (30 marks)
- 4.4. State the advices you would give to a patient who is prescribed with oral iron tablets at the community pharmacy outlet. (20 marks)
- 4.5. Briefly describe the treatment of iron toxicity. (20 marks)

- 5.
- 5.1. Compare the mode of actions of warfarin and heparin. (40 marks)
- 5.2. State laboratory tests that are performed to monitor the above drug therapy (10 marks)

**PART D**

- 5.3. Describe briefly the pharmacokinetics of Cephalosporin and Chloramphenicol. (40 marks)
- 5.4. Mention **two** drug interactions of Chloramphenicol. (10 marks)
6. State the mode of actions, clinical indications and contraindications of
- 6.1. quinolone . (25 marks)
- 6.2. benzyl penicillin (25 marks)
- 6.3. gentamicin (25 marks)
- 6.4. tetracycline (25 marks)

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