



UNIVERSITY OF RUHUNA – FACULTY OF ALLIED HEALTH SCIENCES

DEPARTMENT OF PHARMACY

THIRD BPHARM PART II EXAMINATION – DECEMBER 2018/JANUARY 2019

PH 3223 PHARMACOTHERAPEUTICS (SEQ)

TIME: TWO HOURS

**INSTRUCTIONS**

- There are four (04) questions in Part A, B, C, D and E of SEQ paper.
- Answer **all** Parts in a 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. Briefly describe the short acting  $\beta_2$  receptor agonist in management of asthma. (30 marks)
- 1.2. List **five** risk factors of chronic renal failure. (15 marks)
- 1.3. List **three** treatments which are used for renal osteodystrophy. (15 marks)
- 1.4. A 30-year man was diagnosed with peptic ulcer disease caused by *Helicobacter pylori*. Name **five** drug classes which are used to treat this condition. (10 marks)
- 1.5. Briefly describe different types of therapies which are used for the treatment of hyperthyroidism. (30 marks)

**02.**

- 2.1. List **four** treatments which are used for the management of diabetic ketoacidosis and hyperosmolar coma. (20 marks)
- 2.2. Describe **five** important information that needs to be discussed regarding lifestyle modifications and good personal hygiene with diabetic patients to avoid diabetes related complications. (40 marks)
- 2.3.
  - 2.3.1. State **four** treatment goals for managing systemic lupus erythematosus. (20 marks)
  - 2.3.2. Briefly describe the use of corticosteroids for treating systemic lupus erythematosus. (20 marks)

**03.**

- 3.1. List **five** drugs which are used to treat acne vulgaris. (10 marks)
- 3.2. Write a short note on treatment of levodopa for Parkinson's disease. (40 marks)

### Part B

3.3.

3.3.1. List **four** drugs which are used in the treatment of acute ST elevated myocardial infarction. (10 marks)

3.3.2. Explain the pharmacological basis of using the drugs mentioned in 3.3.1 in acute ST elevated myocardial infarction. (40 marks)

### Part C

04.

4.1. A 36-year old lady presented with a prescription of oral nitrofurantoin 100 mg twice daily for 5 days. She complained of dysuria, lower abdominal pain and frequency for 3 days.

4.1.1. What is the most likely condition she is receiving treatment for? (05 marks)

4.1.2. Name **three** causative organisms causing the above problem. (10 marks)

4.1.3. Apart from the information given in the history what else would you like to know about the patient? (10 marks)

4.1.4. Briefly describe the pharmacotherapeutics of nitrofurantoin. (25 marks)

### Part D

4.2. Schizophrenia is a mixture of characteristic symptoms, both positive and negative.

4.2.1. Differentiate between positive and negative symptoms of schizophrenia giving two examples for each. (10 marks)

4.2.2. Briefly explain why Clozapine is currently restricted to patients who have failed at least two trials of other antipsychotic medications. (15 marks)

### Part E

4.3.

4.3.1. Name **two** antiarrhythmic drugs commonly used in Sri Lanka. (04 marks)

4.3.2. Briefly describe the pharmacological rationale of using the named **two** drugs. (15 marks)

4.3.3. List **three** common side effects for each of the drugs listed in 4.3.1. (06 marks)

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