



UNIVERSITY OF RUHUNA – FACULTY OF ALLIED HEALTH SCIENCES

DEPARTMENT OF PHARMACY

THIRD BPHARM PART II EXAMINATION – DECEMBER 2018/JANUARY 2019

PH 3212 PHARMACOLOGY IV & TOXICOLOGY (SEQ)

TIME: TWO HOURS

INSTRUCTIONS

- There are **four (04)** questions in SEQ paper.
- Answer **all** questions in the booklet provided.
- No paper should be removed from the examination hall.
- Do not use any correction fluid.
- Use illustrations where necessary.

1.

1.1. Briefly describe the following regarding primaquine,

1.1.1. clinical use

(10 marks)

1.1.2. pharmacokinetics

(10 marks)

1.1.3. two side effects

(10 marks)

1.2. Mention **two** therapeutic uses of H₁ antihistamines.

(10 marks)

1.3. Discuss the mechanism of action and pharmacokinetics of following drugs.

(60 marks)

1.3.1. Mebendazole

1.3.2. Acyclovir

1.3.3. Isoniazid

1.3.4. Loratidine

2.

2.1. Define the term “Hypothermia”.

(10 marks)

2.2. Write the **four** main steps used in the management in acute poisoning.

(20 marks)

2.3. Briefly explain the effect of activated charcoal in poisoning.

(20 marks)

2.4. List **two** ways of management of ethyl alcohol toxicity.

(20 marks)

2.5. Describe the mechanism of toxicity of ethyl alcohol.

(30 marks)

3.

3.1. Define following terms.

(16 marks)

3.1.1. Toxicology

3.1.2. Lethal dose (LD₅₀)

3.2. Name **two** routes of exposures of environmental toxicity.

(04 marks)

3.3. List **three** methods that can be used to enhance the elimination of an ingested poison.

(15 marks)

3.4. What is heavy metal poisoning?

(10 marks)

3.5. Mention **two** ways of treatment in inorganic lead poisoning. (20 marks)

3.6. Write **one** specific antidote for the overdose of the following drugs/ chemicals. (35 marks)

3.6.1. Organophosphate

3.6.2. Acetaminophen

3.6.3. Propranolol

3.6.4. Cyanide

3.6.5. Diazepam

3.6.6. Morphine

3.6.7. Carbon monoxide

4.

4.1. Briefly describe the following factors regarding griseofulvin,

4.1.1. mechanism of action (15 marks)

4.1.2. **two** drug interactions (10 marks)

4.1.3. **two** patient advices (10 marks)

4.2. List **two** side effects of pyrazinamide. (10 marks)

4.3. Name **one** example for following immunosuppressants. (10 marks)

4.3.1. Cytokine inhibitor

4.3.2. Immune cell adhesion inhibitor

4.4. Mention **two** clinical uses of azathioprine. (10 marks)

4.5. Name **one** drug for calcineurin inhibitors and **two** adverse effects of the drug named. (15 marks)

4.6. Briefly describe the mechanism of action of methotrexate. (20 marks)

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