

UNIVERSITY OF RUHUNA – FACULTY OF ALLIED HEALTH SCIENCES

DEPARTMENT OF PHARMACY

SECOND BPHARM PART I EXAMINATION - NOVEMBER 2019 PH 2134 PATHOLOGY AND PHARMACOLOGY I (SEQ)

TIME: THREE HOURS

INSTRUCTIONS

- There are six questions in A. B and C parts of the SEQ paper.
- Each part should be answered in a separate booklet.
- No paper should be removed from the examination hall.
- Do not use any correction fluid.
- Use illustrations where necessary.

PARTA

1. Thiazide is one of the major groups of diureties.	
1.1. Name four other groups of diureties with their site/s of action.	(20 marks)
1.2. Write an example to each group you mentioned in 1.1.	(10 marks)
1.3. Explain the mechanism of action of thiazide diuretics.	(40 marks)
1.4. List three therapeutic uses of thiazide diuretics.	(15 marks)
1.5. Write three adverse effects of thiazide diuretics.	(15 marks)

PARTI

- 2.1. Define the term "drug interactions".
- 2.2. Briefly explain two precautions can be taken to detect and prevent adverse drug reactions.

(20 marks)

- 2.3. Briefly explain the importance of clinical trial registry.
- 2.4. Indicate the importance of Phase IV clinical trials in the drug development process.

(10 marks)

(20 marks)

(10 marks)

2.5.

- 2.5.1. Name three "statins" commonly used in Sri Lanka. (05 marks)
- 2.5.2. List two adverse effects of one of the "statins" named in 2.5.1. (10 marks)
- 2.5.3. Briefly explain two mechanisms of actions of "statins". (25 marks)

PART C

3.

- 3.1. Define the following terms.
 - 3.1.1 Pharmacokinetics. (05 marks)
 3.1.2 Pharmacodynamics. (05 marks)
 - 3.2. List the pharmacokinetic changes observed during pregnancy. (30 marks)

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3.3. Briefly indicate the principles of prescribing during pregnancy.	(20 marks)
3.4. List five factors affecting placental drug transfer.	(20 marks)
3.5. TO THE COOL HE SAME AND THE OWN VOICE WHITE AT RELIGION.	
3.5.1. Define the term "teratogenicity".	(05 marks)
3.5.2. Write five drugs which have terotogenic effects.	(05 marks)
3.5.3. State two teratogenic effects caused by each drug listed in 3.5.2.	(10 marks)
4.	
4.1. Write an example for each of the following categories of anticholinergies.	(20 marks)
 4.1.1.M₁-selective antimuscarinic drugs. 4.1.2.Nonselective antimuscarinic drugs. 4.1.3.Ganglion blockers. 	
4.1.4. Neuromuscular blockers.	(20 marks)
4.2. Briefly describe the mechanism of action of atropine.	(30 marks)
4.3. Briefly explain three contraindications for anticholinergies.	MICH COLUMN
4.4. Differentiate mechanism of actions of non-depolarizing relaxant neuromu	(30 marks)
drugs in their low doses and high doses.	(30 marks)
5.	(10 marks)
5.1. What is acute inflammation?	(15 marks)
5.2. What are the cardinal features of acute inflammation?	(20 marks)
5.3. What are the sequale of acute inflammation?	(20 marks)
5.4. Write short notes on the following.	(15 marks)
5.4.1. Suppurative (purulent) inflammation. 5.4.2. Chemical mediators of acute inflammation.	(40 marks)
5.4.2. Chemical mediators of acute final materials.	Areign E.S.
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6.	(20
6.1. What is cell injury?	(20 marks)
6.2. What are the mechanisms of cellular adaptation?	(20 marks)
6.3. Describe morphological patterns of cell injury.	(30 marks)
6.4. Briefly explain the mechanism of cell injury via ATP depletion.	(30 marks)

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