

UNIVERSITY OF RUHUNA - FACULTY OF ALLIED HEALTH SCIENCES

DEPARTMENT OF PHARMACY

SECOND BPHARM PART I EXAMINATION – JULY 2018 PH 2134 PATHOLOGY AND PHARMACOLOGY I (SEQ)

TIME: THREE HOURS

INSTRUCTIONS

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

PART A

1.

1.1. Describe the mode of action of adrenaline. (20 marks)

1.2. What is the pharmacodynamic difference of adrenaline with noadrenaline? (10 marks)

1.3. State the dose of adrenaline in

1.3.1. anaphylactic shock (10 marks)

1.3.2. cardiac arrest (10 marks)

1.4. Describe the importance of the dose response relationship of dopamine in clinical practice.

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1.5. Name the drugs used in open angle glaucoma. (20 marks)

2.

2.1. Name phases of clinical trials including the relevant number of participant for study group.

(20 marks)

(30 marks)

- 2.2. What is the phase of clinical trial which is done to monitor drug effects and safety after the marketing? (10 marks)
- 2.3. State importance of the following phases of drug discovery process.
 - 2.3.1. Target selection

2.3.2. Lead discovery

(20 marks)

PART B

2.4. Describe the dose response curve of a drug.

(50 marks)

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3.		
3.	3.1. Briefly describe the mechanism of action of physostigminc.	(30 marks)
	3.2. Name two other cholinergic drugs other than physostigmine.	(10 marks)
	3.3. State clinical indications for the drugs you mentioned in 3.2.	(20 marks)
	3.4. Describe the mode of action, and list side effects of atropine.	(25 marks)
	3.5. List the common clinical indications of anticholinergic drugs.	(15 marks)
	wer <u>each</u> part in a separate booklet.	
4.		
	4.1. Briefly describe the mechanism of action of propranolol.	(20 marks)
	4.2. List the clinical indications of propranolol.	(15 marks)
	4.3. List the contraindications of propranolol.	(15 marks)
	4.4. Write brief notes on the use of propranolol in a patient with diabetes.	(20 marks)
	4.5. State the advice you would give to a patient who was dispensed with GTN sublin	gual tablets
	at a Pharmacy outlet.	(30 marks)
5.	Coombs and Gell classification proposes four categories of hypersensitivity reactions.	
	5.1. Give two examples for each type of hypersensitivity reaction.	(24 marks)
	5.2. Name three mediators associated with type I hypersensitivity reactions.	(15 marks)
	5.3. Briefly explain the mechanism underlying type III hypersensitivity reactions.	(30 marks)
	5.4. Write five common allergens.	(15 marks)
	5.5. Write four allergic reactions that occur on skin.	(16 marks)
	PART D	
6.		. 2.2
	6.1. Define neoplasia.	(15 marks)
	6.2. Compare and contrast a benign tumor and a malignant tumor.	(30 marks)
	6.3. State the cellular features of malignancy.	(15 marks)
	6.4. List five malignant tumors.	(10 marks)
	6.5. Describe the modes of tumor spread.	(30 marks)
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