



UNIVERSITY OF RUHUNA - FACULTY OF ALLIED HEALTH SCIENCES

DEPARTMENT OF PHARMACY

SECOND BPHARM PART II EXAMINATION – JUNE/JULY 2023

PH 2232 PHARMACOLOGY II- SEQ PAPER

TIME: TWO HOURS

INSTRUCTIONS

- There are **four** questions in part **A, B and C** in this SEQ paper.
- Answer each part in separate booklet provided.
- No paper should be removed from the examination hall.
- Do not use any correction fluid.
- Use illustrations where necessary.

PART A

1.
 - 1.1.
 - 1.1.1. List four stages of anesthesia. **(10 marks)**
 - 1.1.2. Write two advantages of local anesthetics over general anesthetics. **(10 marks)**
 - 1.1.3. Classify local anesthetics based on the chemical structure and give two examples for each category. **(15 marks)**
 - 1.1.4. List two signs and symptoms of local anesthetic toxicity. **(15 marks)**
 - 1.2.
 - 1.2.1. Categorize antipsychotics. Give three examples of medicines for each of the category you mentioned. **(15 marks)**
 - 1.2.2. Describe the pharmacological basis of common adverse effects due to antipsychotic medications. **(35 marks)**
2. Monoamine oxidase inhibitors are second-line agents used in the treatment of depression.
 - 2.1. List two monoamine oxidase inhibitors. **(10 marks)**
 - 2.2. Name five other categories of medicines commonly used in the treatment of depression. Write two examples of medicines to each of the category you mentioned. **(30 marks)**

- 2.3. Describe the mechanism of action of monoamine oxidase inhibitors. (20 marks)
- 2.4. 'The clinical use of monoamine oxidase inhibitors is restricted due to the possible drug-drug and drug-food interactions.' Justify this statement giving appropriate examples. (40 marks)

PART B

3. Write one example for the following. (20 marks)
- 3.1.1. Inhibitory neurotransmitters
 - 3.1.2. Excitatory neurotransmitters
 - 3.1.3. Neuropeptide neurotransmitters
 - 3.1.4. Tyrosine-derived neurotransmitters
- 3.2. Describe the six sequential steps involved in cholinergic neurotransmissions. (30 marks)
- 3.3. List four factors affect to deplete neurotransmitter levels in the body. (20 marks)
- 3.4. Write a short note on "drug addiction". (30 marks)

PART C

4. Answer the following regarding Non-Steroidal Anti-inflammatory Drugs (NSAIDs).
- 4.1.1. List two selective COX-2 inhibitors. (10 marks)
 - 4.1.2. Briefly discuss the mechanism of action of selective COX-2 inhibitors. (20 marks)
 - 4.1.3. Mention two treatment strategies for aspirin toxicity. (10 marks)
 - 4.1.4. Gastric irritation and ulceration is a common side effect of NSAIDs. Justify this statement while giving a pharmacological approach to overcome that problem. (15 marks)
- 4.2. Answer the following regarding sedative and hypnotics.
- 4.2.1. Mention two clinical uses. (10 marks)
 - 4.2.2. Briefly explain the mechanism of action, two side effects and two precautions of diazepam. (35 marks)

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