



UNIVERSITY OF RUHUNA - FACULTY OF ALLIED HEALTH SCIENCES

DEPARTMENT OF PHARMACY

SECOND BPHARM PART II EXAMINATION – AUGUST 2022

PH 2232 PHARMACOLOGY II- SEQ

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

- 01.
- 1.1. Name two barbiturates. *(10 marks)*
 - 1.2. Briefly explain the mechanism of action of barbiturates. *(30 marks)*
 - 1.3. List three types of migraine headaches. *(15 marks)*
 - 1.4. Briefly describe the etiology of migraine headache. *(20 marks)*
 - 1.5. Briefly explain the mechanism of action of acetaminophen. *(25 marks)*

PART B

- 02.
- 2.1. Levodopa is used in the treatment of Parkinson's disease.
 - 2.1.1. 'The combination therapy of levodopa with peripheral dopa decarboxylase inhibitors reduces the requirement for higher dose of levodopa'. Explain this statement. *(25 marks)*
 - 2.1.2. State two examples for combination of levodopa + peripheral dopa decarboxylase inhibitor. *(10 marks)*
 - 2.1.3. List three levodopa associated side effects. *(15 marks)*
 - 2.2.
 - 2.2.1. What are anticonvulsants? *(10 marks)*
 - 2.2.2. Briefly describe the pharmacokinetic properties of phenytoin. *(20 marks)*
 - 2.2.3. "It is important to know whether a woman is on contraceptive pills before starting carbamazepine" Briefly explain this statement. *(20 marks)*

03.

- 3.1. List three pharmacological categories of narcotic analgesics based on its stimulatory or inhibitory effect on receptors giving one example for each category. (15 marks)
- 3.2. What are the pharmacological effects of narcotic analgesics on the Central Nervous System? (20 marks)
- 3.3. List three indications of narcotic analgesics. (15 marks)

PART C

- 3.4. List two examples for excitatory and inhibitory of neurotransmitters. (20 marks)
- 3.5. Briefly describe how the excitatory pathway is stimulated. (30 marks)

04.

- 4.1. List four physiologic states induced by general anesthetics. (10 marks)
- 4.2. State three ideal characteristics of general anesthetics. (10 marks)
- 4.3. Briefly describe following regarding inhaled anesthetics.
 - 4.3.1 Pharmacodynamics (20 marks)
 - 4.3.2 Clinical uses (10 marks)
 - 4.3.3 Contraindications (10 marks)
- 4.4. Describe followings regarding local anesthetics.
 - 4.4.1 Mechanism of action (20 marks)
 - 4.4.2 Selection of local anesthetics (20 marks)

@@@@@@@@@@@@@@@@