



**UNIVERSITY OF RUHUNA – FACULTY OF MEDICINE**  
**ALLIED HEALTH SCIENCES DEGREE PROGRAMME**  
**SECOND BPHARM PART II EXAMINATION – DECEMBER 2016**  
**PH 2232 PHARMACOLOGY II (SEQ)**

**TIME: TWO HOURS**

**INSTRUCTIONS**

- Answer **all** questions.
- No paper should be removed from the examination hall.
- Do not use any correction fluid.
- Use illustrations where necessary.

1.
  - 1.1. List **three** COX-1 inhibitors and **one** COX-2 inhibitor. (20 marks)
  - 1.2. Describe the pharmacological basis of using the COX-1 and COX-2 inhibitors in the management of rheumatoid arthritis. (70 marks)
  - 1.3. List **four** adverse effects of the drugs mentioned in 1.1 above. (10 marks)
  
2.
  - 2.1.
    - 2.1.1. Classify local anesthetics with examples. (15 marks)
    - 2.1.2. List **five** local anesthetic techniques giving one drug each that can be used with each of these techniques. (35 marks)
  - 2.2.
    - 2.2.1. List **three** main mechanisms of actions of drugs used to treat epilepsy. (10 marks)
    - 2.2.2. List the baseline investigations that need to be done before the commencement of carbamazepine. (10 marks)
    - 2.2.3. Describe the importance of doing the investigations you stated in 2.4. above before the commencement of carbamazepine. (30 marks)
  
3.
  - 3.1. State the **two** types of skeletal muscle relaxants. (10 marks)
  - 3.2. Name **three** clinical indications for skeletal muscle relaxants. (10 marks)
  - 3.3. Compare the mechanism of action of pancuronium in small doses and in large doses. (20 marks)
  - 3.4. Explain the consequences of co-administration of pancuronium and streptomycin. (20 marks)
  - 3.5. Atracurium causes hypotension. Explain. (20 marks)
  - 3.6. Discuss the mechanism of action of succinylcholine. (20 marks)
  
4. Write short notes on the following.
  - 4.1. Tardive dyskinesia (20 marks)
  - 4.2. Lithium carbonate (40 marks)
  - 4.3. Clozapine (40 marks)