



**MASENO UNIVERSITY**

**UNIVERSITY EXAMINATIONS 2017/2018**

**SECOND YEAR FIRST SEMESTER EXAMINATION FOR  
THE DEGREE OF BACHELOR OF SCIENCE IN  
PHARMACEUTICAL SCIENCES WITH INFORMATION  
TECHNOLOGY**

**MAIN CAMPUS**

**PMT 217: GENERAL PHARMACOLOGY**

Date: 5<sup>th</sup> March, 2018

Time: 12.00 - 3.00pm

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**INSTRUCTIONS:**

- Answer ALL Questions in Section A and B



**Part 1: answer all questions**

1. Discuss the cellular components and non-specific sites which can serve as sites of drug action (7 marks)
2. Describe the differences between the following terminologies
  - a. Potency and efficacy (3 marks)
  - b. Dose response and therapeutic window (3marks)
  - c. Therapeutic index and 50% inhibition concentration (3marks)
3. Describe the medical importance of
  - a. Antagonists (4 Marks)
  - b. Agonists (4 marks)
4. Differentiate the key steps of drug metabolism (6 mks)

**Part B: answer all questions**

1. Discuss drug receptors and how they function (10 marks)
2. The oral route of administration of drugs is safer and more convenient for the patient than other routes. Discuss. (10 marks)
3. Discuss
  - a. General Characteristics of Antimicrobial Drugs (5 Marks)
  - b. Determining the Level of Antimicrobial Activity (4 marks)
  - c. Mechanisms of drug resistance (3 marks)
4. Discuss interactions are of clinical importance. Discuss (8 marks)