



# Technical University of Mombasa

Faculty of Applied and Health Sciences

**DEPARTMENT OF PURE AND APPLIED SCIENCES**  
UNIVERSITY EXAMINATION FOR THE DEGREE OF BACHELOR OF  
SCIENCE IN COMMUNITY HEALTH  
**BSCH 13J**

**APM4221 : INTRODUCTION TO PHARMACOLOGY**

SEMESTER : EXAMINATION

APRIL 2014 SERIES

2 HOURS

Instructions to candidates:

This paper consists of **FIVE** questions

Answer question **ONE** (compulsory) and any other **TWO** questions

## QUESTION ONE

- a) Define
- (i) Pharmacotherapeutics . (2marks)
  - (ii) Pharmacognosia (2marks)
- b) Mention the uses of bioassay (5marks)
- c) Describe any five disadvantages of the oral route of drug administration (5marks)
- d) Differentiate between the two types of kinetics of drug elimination from the body (4marks)
- e) Describe any six types of injections in drug administration (6marks)

f) What properties of receptors distinguish them from other cellular sites that bind a drug

**(6marks)**

## **QUESTION TWO**

a) Describe the five means of biotransport of drug molecules **(10marks)**

b) Briefly describe the adverse drug effects produced at doses for prophylaxis or therapy

**(10marks)**

## **QUESTION THREE**

Discuss the important factors that influence the effect of a drug **(20marks)**

## **QUESTION FOUR**

Describe new drug development under the following subheadings.

a) Pre clinical studies **(5marks)**

b) The clinical trials in drug development **(15marks)**