



**TECHNICAL UNIVERSITY OF MOMBASA**  
**FACULTY OF APPLIED AND HEALTH SCIENCES**

**DEPARTMENT OF ENVIRONMENT AND HEALTH SCIENCES**  
UNIVERSITY EXAMINATION FOR THE DEGREE OF BACHELOR OF SCIENCE IN  
COMMUNITY HEALTH  
**BSCH14S**

**APM 4221 : INTRODUCTION TO PHARMACOLOGY**

**SEMESTER EXAMINATION**

May 2016

2 HOURS

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**INSTRUCTIONS TO CANDIDATES**

*This paper consists of **FIVE** questions*

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

*This paper consists of two **PRINTED** pages*

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**QUESTION ONE**

- (a) Define the following terms as used in pharmacology
- i. Pharmacokinetics (**2 marks**)
  - ii. Drug receptor (**2 marks**)

(b) Interpret the following medication orders.

**Glycerine 2 mg supp 1 OD x 5/7 (3 marks )**

(a) **What is the route of drug administration? ( 1 mark)**

(b) **How many times per day will the drug be administered? ( 1 mark)**

(c) **In total, how many milligrams of glycerine will be administered at the end of treatment? ( 1 mark)**

(c) Explain any **FIVE** causes which facilitate patient non adherence to prescribed medicines. **(5 marks)**

(d) Outline any **FOUR** uses of bio-assays **(4 marks)**

(e) Outline the components of a valid prescription **(5 marks)**

(f) Describe any **FIVE** elements found in an insert found in drugs dispensed to patient **(5 marks)**

(g) State any four criteria used to assess a drug before it is registered in Kenya **(4 marks)**

## **QUESTION TWO**

a) Describe any **FOUR** types of injections in drug administration **(8 marks)**

(b) Describe **FOUR** mechanisms of transport of drug molecules across the cell membrane **(12 marks)**

## **QUESTION THREE**

Discuss factors affecting drug absorption and bio-availability **(20 marks)**

## **QUESTION FOUR**

Describe FIVE factors that contribute towards medication error. **( 20 marks)**

## **QUESTION FIVE**

a) Define the term pharmacovigilance and explain **FOUR** reasons why pharmacovigilance is important in public health **(14 marks)**

b) Describe the **TWO** types of adverse drug reactions **(6 marks)**

