



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

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*

May 2016

2 HOURS

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)**

