



# Technical University of Mombasa

*Faculty of Applied and Health Sciences*

**DEPARTMENT OF ENVIRONMENT AND HEALTH SCIENCES**

CERTIFICATE IN COMMUNITY HEALTH AND HIV MANAGEMENT  
(CCH 13M)

**AMD 1105: BASIC PHARMACOLOGY**

**SUPPLEMENTARY/SPECIAL: EXAMINATIONS**

**SERIES: MARCH 2014**

**TIME: 2 HOURS**

## **INSTRUCTIONS:**

You should have the following for this paper

- *Answer booklet*

This paper consists of **FIVE** questions.

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

*This paper consists of 3 PRINTED pages*

## QUESTION ONE

- a) Define the following terms
  - (i) Pharmacokinetics (2 marks)
  - (ii) Pharmacy (2 marks)
- b) State four reasons for drug administration (4 marks)
- c) Distinguish between pessary and suppository (4 marks)
- d) Explain the term placebo. (4 marks)
- e) Give four uses of non-steroidal anti-inflammatory drugs (4 marks)
- f) Explain why patients on tetracycline therapy are advised to avoid milk or antacids (4 marks)
- g) Name four parenteral injections (4 marks)
- h) Name two drugs that induce liver microsomal enzymes (2 marks)

## QUESTION TWO

- a) List down advantages of oral route of drug administration (10 marks)
- b) Outline five disadvantages of injections (5 marks)

## QUESTION THREE

- a) Briefly discuss any three routes of drug administration. Give an example of a drug in each case. (10 marks)
- b) Explain the term pharmacopeia and give three examples of pharmacopeia. (5 marks)

## QUESTION FOUR

- a) Discuss factors that affect the absorption of drugs from gastro-intestinal tract. (10 marks)
- b) Outline factors affecting drug distribution in the body (5 marks)

## QUESTION FIVE

- a) Explain why:
  - (i) Hyaluronidase enzyme is added to the injection fluid (4 marks)
  - (ii) Lignocaine added with adrenaline is injected into the gum, prior to the tooth extraction (5 marks)
- b) List down six disadvantages of oral route of drug administration (6 marks)