

TECHNICAL UNIVERSITY OF MOMBASA Faculty of Applied & Health Sciences

DEPARTMENT OF ENVIRONMENT AND HEALTH SCIENCES

DIPLOMA IN COMMUNITY HEALTH (DCH 13J)

APH 2209: FUNDAMENTALS OF PHARMACOLOGY

SPECIAL/SUPPLEMENTARY EXAMINATIONS

SERIES: FEBRUARY 2015

TIME: 2 HOURS

INSTRUCTIONS:

- This paper consists of **FIVE** questions.
- Answer question **ONE** (**Compulsory**) in Section **A** and any other **TWO** questions in **B**. **This paper consists of Two printed pages.**

SECTION A (Compulsory) 30 Marks

QUESTION 1

a) Distinguish between drug and placebo.	(4 marks)
b) Explain the following pharmacological terms;i) Pharmacokineticsii) Antidote	(2 marks) (2 marks)
c) Distinguish between agonist and antagonist.	(4 marks)
d) i) What is sublingual administration?ii) Give THREE advantages of sublingual route of drug administration.	(2 marks) (3 marks)
e) Name any FOUR routes of drug administration.	(4 marks)
f) Explain why patients on tetracycline therapy are adviced to avoid milk.	(4 marks)
g) State FOUR advantages of enteral route of drug administration.	(4 marks)
h) Name the main organ for metabolizing drugs.	(1 mark)
SECTION B (Answer any TWO questions) QUESTION 2	
Explain the following pharmacological phenomenon: a) Enteric coating b) Enzyme induction c) Entero-hepatic shunt 	(5 marks) (5 marks) (5 marks)
QUESTION 3	
a) Outline TEN disadvantages of drug administration by oral route.	(10 marks)
b) State the factors that determine the choice of the route of drug administration.	(5 marks)
QUESTION 4	
a) Outline the pharmacologically active principles in plants.	(5 marks)
b) Explain why adrenaline is mixed with lignocaine during tooth extraction.	(5 marks)
c) Give the classification of drugs.	(5 marks)
QUESTION 5	
a) Describe the factors affecting the rate of gastro intestinal absorption of drugs.	(12 marks)
b) Explain the term first-pass metabolism.	(3 marks)