



MASINDE MULIRO UNIVERSITY OF SCIENCE AND TECHNOLOGY [MMUST]

MAIN CAMPUS

UNIVERSITY EXAMINATIONS

MAIN EXAM

2023/2024 ACADEMIC YEAR

FOURTH YEAR FIRST SEMESTER EXAMINATION

FOR THE DEGREE OF BACHELOR OF SCIENCE IN ENVIROMETAL HEALTH

COURSE CODE:

HEM 417

COURSE TITLE:

INTRODUCTION TO PHARMACOLOGY

DATE: 5/12/2023

TIME: 2.00-4.00 PM

INSTRUCTIONS TO CANDIDATES:

ANSWER ALL QUESTIONS IN SECTION A AND ANY TWO IN SECTION B

TIME: 2 Hours

MMUST observes ZERO tolerance to examination cheating

Paper Consists of 3 Printed Pages. Please Turn Over

SECTI	ON A (ANSWER ALL)	(40 marks)
1.	Define the following terms	(4 marks)
	a. Drug	-
	b. Pharmacokinetics	
	c. Pharmacodynamics	
	d. Drug half-life (t _{1/2})	
2.	Describe the following drug names	(6 marks)
	a. Chemical name	
	b. International non-proprietary name	
	c. Brand name	
3.	Outline the importance of pharmacology knowledge in environmental health	
	profession	(5 marks)
4.	Outline FIVE measures that can be used to minimize or prevent adverse drug	
	interactions	(5 marks)
5.	Give advantages and disadvantages of the intravenous route of drug administration	
		[8 marks]
6.	Name four anthelmintic drugs	(4 marks)
7.	Describe THREE sources of drugs	(3 marks)
8.	Give five factors that are considered when selecting the route of	drug administration
		(5marks)
SECTION B (ANSWER ANY TWO)		
1.	Discuss five parenteral routes of drug administration, including spedisadvantages of each route	ecific advantages and (15 Marks).

pharmacokinetics

processes (15 Marks).

(15 marks)

major

3. Discuss the factors that affect absorption of orally administered drugs

2. Describe

four

that the drug will be subject to over time