BMET 336

CHUKA



UNIVERSITY EXAMINATIONS

RESIT/SPECIAL EXAM

EXAMINATION FOR THE AWARD OF DEGREE OF BACHELOR OF EDUCATION (ARTS & SCIENCE)

BMET 336: INTRODUCTION TO PHARMACOLOGY

STREAM: BMET

TIME: 2 HOURS

QUESTION 1 (COMPULSORY) (30 MARKS)

a)	Briefly describe the advantages and disadvantages of the following routes of drug administration:			
	(i) Intra			
	(ii) Intr	amuscular.	(5 marks)	
b)) Define the following terms:			
	(i)	Half-life of a drug		
	(ii)	(ii) Apparent Volume of distribution (AVD)		
	(iii)	(iii) Adverse drug reactions.	(6 marks)	
c)	Discus	s briefly pharmacodynamics drug interactions	(5 Marks)	
d)	By use of graphical curves, discuss various types of dose-response relationships.			
			(5 Marks)	
e)	Differ	entiate between pharmacology and pharmacy.	(4 Marks)	
f)	(i) Wł	nat is selective toxicity?	(1 Mark)	
	(ii) Highlight four ways in which microbes may acquire resistance to antimicrobial			
	drugs.		(4 Marks)	

QUESTION 2 (20 MARKS)

a)	Discuss in	detail five	factors that	influence	drug a	absorption	and bioava	ilability

b)	Describe five conjugation reacti	ions involved in drug biotransformation.	(10 Marks)

(10 Marks)

QUESTION 3 (20 MARKS)

a)	Describe five types of adverse drug effects.	(10 Marks)		
b)	(i) Outline three factors to take into consideration in selection of antibiotics.			
		(3 Marks)		
	(ii) Describe classification of antibiotics by mechanism of action.	(7 Marks)		
QUES	STION 4 (20 MARKS)			
a)	Discuss various transport ways of a drug across cell membrane.	(10 Marks)		
b) Describe factors determining the rate of distribution of drugs in a bio		cal system.		
		(10 Marks)		

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