

TECHNICAL UNIVERSITY OF MOMBASA

FACULTY OF APPLIED AND HEALTH SCIENCES DEPARTMENT OF PURE & APPLIED SCIENCES UNIVERSITY EXAMINATION FOR:

BTMB

ABT4410: BIOCHEMICAL PHARMACOLOGY END OF SEMESTER EXAMINATION

SERIES: APRIL 2016

TIME:2HOURS

DATE:10 Mar 2016

Instructions to Candidates

You should have the following for this examination

-Answer Booklet, examination pass and student ID

This paper consists of 5 questions. Attempt question ONE compulsory and any other two questions.

Do not write on the question paper.

a. Define the following terms

Pharmacokinetics

Question ONE

iv)

i) Lead compound (1mark)ii) Agonist (1mark)

ii) Agonist (1mark)

iii) Pharmacology (1mark)

v) Ligand (1mark)

b. Explain the major types of drug antagonism (4 marks)

c. Draw the chemical structures of the following drugs showing the active sites

i) Epinephrine (2 marks)

ii) Norepinephrine (1marks)

iii) Remikren (2 marks)

(1mark)

d.	Distinguish between reversible and irreversible drug interactions	(3 marks)
e.	Explain two factors influencing metabolism of drugs	(4 marks)
f.	State four advantages of oral route of drug administration	(4 marks)
g.	Explain the pharmacological processes	(5 marks)
Question TWO		
Describe the drug discovery process		(20 marks)
Question THREE		
Descri	be biotransformation reactions in drug metabolism	(20 marks)
Question FOUR		
i)	Describe the classical model of drug distribution and eliminations	(10 marks)
ii)	Discuss first order and zero order process in drug absorption and elimination	(10 marks)
Question FIVE		
i)	Discuss the mechanism of increased blood pressure following angiotensin deg (15marks)	radation .
ii)	Explain the mechanism of action of Remikren in reduction of blood pressure	
		(5 marks)