BIOC 310

CHUKA



UNIVERSITY

UNIVERSITY EXAMINATIONS

RESIT/SPECIAL EXAMINATION

EXAMINATION FOR THE AWARD OF DEGREE OF BACHELOR OF SCIENCE IN BIOCHEMISTRY AND BIOMEDICAL

BIOC 310: ENZYMOLOGY

STREAMS: BIOC/ BIOMED

TIME: 2 HOURS

DAY/DATE: MONDAY 01/02/2021

11.30 A.M – 1.30 P.M.

INSTRUCTIONS

• Answer ALL questions

QUESTION ONE (30 MARKS)

(a) Derive the Michaelis –Menten equation		(10 marks)	
(b) Exp	(3 marks)		
(c) Distinguish between the following			
(i)	Monomeric and oligomeric enzymes	(4 marks)	
(ii)	Holoenzyme and apoenzyme	(4 marks)	
(d) Def	(2 marks)		
(e) Give any Five (5) properties of the active site of the enzyme.			
(f) Give any two properties of enzymes			

QUESTION TWO (20 MARKS)

(a) Using structural illustrations, d	escribe the mechanism	of action of lysozyme.	(10 marks)
(b) Explain the different types of	inhibitors.	(10	0 marks)

QUESTION THREE (20 MARKS)

(a) Explain the different classes of enzymes.	(8 marks)	
(b) Using structural illustrations, describe the mechanism of action of chymotrypsin		
	(12 marks)	