

TECHNICAL UNIVERSITY OF MOMBASA

FACULTY OF APPLIED AND HEALTH SCIENCES DEPARTMENT OF PURE & APPLIED SCIENCES

UNIVERSITY EXAMINATION FOR:

BTIMB

ABT4403: THERAPEUTIC PROTEINS END OF SEMESTER EXAMINATION

SERIES:APRIL2016

TIME:2HOURS

DATE: Pick Date May 2016

Instructions to Candidates

You should have the following for this examination *Answer Booklet, examination pass and student ID*

This paper consists of FIVE questions. Attemptquestion ONE (Compulsory) and any other TWO questions.

Do not write on the question paper.

Question ONE

a.	Ident	ify the amino acid and position of disulfide bridges in HGH	(2 marks)
b.	Expla		
	i.	Pre sequence	(4 marks)
	ii.	Pro sequence	(4 marks)
c.	List t	he five effects of insulin in the human body	(5 marks)
d.	Descr	ribe the structure of Baculovruses	(5 marks)
e.	Differentiate between the following;		
	i.	The structure of FSH and LH	(5 marks)
	ii.	Function of INF and TGF-	(5 marks)

Question TWO

Explain the following for cystic fibrosis

a.	Causes	(10 marks)
b.	Symptoms	(10 marks)

Question THREE

Highlight the

a. process of superovulation and its significance using examples
b. mechanism of action of HGH in adult female
(10 marks)

Question FOUR

Describe therapeutic enzymes used as digestive aids (20 marks

Question FIVE

Discuss the historical events that led to the discovery of insulin (20 marks)