

# 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.	Desc	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)