

# **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: APRIL 2016

# TIME: 2 HOURS

#### 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. Attempt question ONE (Compulsory) and any other TWO questions. **Do not write on the question paper.** 

#### **Question ONE**

a. Io	lentify the amino acid and position of disulfide bridges in insulin	(5 marks)		
b. Li	st five structural domains and state their function in tPA	(5 marks)		
c. Li	st five advantages of BVES	(5 marks)		
d. D	(5marks)			
e. Differentiate between the following;				
i.	Inhibin and activin	(5 marks)		
ii.	Physiological and pharmacological dosage of GnRH	(5 marks)		

#### **Question TWO**

Describe the following;

a.	IFN-α	(10 marks)
b.	IFN-γ	(10 marks)

#### **Question THREE**

Outline the:			
a. production of follitropin Alfa	(10 marks)		
b. control of HGH production	(10 marks)		
Question FOUR			
Describe four debriding agents	(20 marks)		
Question FIVE			
Explain the production of recombinant urate oxidase	(20 marks)		