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. Identify the amino acid and position of disulfide bridges in insulin (5 marks)

b. List five structural domains and state their function in tPA (5 marks)

c. List five advantages of BVES (5 marks)

d. Describe the structure of erythropoietin (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)