



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 (5 marks)
- 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- (10 marks)
- b. IFN- (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)