



TECHNICAL UNIVERSITY OF MOMBASA
FACULTY OF APPLIED AND HEALTH SCIENCES
DEPARTMENT OF PURE & APPLIED SCIENCES
UNIVERSITY EXAMINATION FOR:
BTMB

Type unit code : ABT 4209

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 (30 Marks)

(a) Define the following terminologies (3mks)

- (i) Immunochemistry
- (ii) Tolerogen
- (iii) Complement system

(b) Distinguish between humoral and cell mediated immunity (4mks)

(c) Give the full meaning of the following abbreviations (4mks)

- (i) MHC
- (ii) GALT
- (iii) APCs
- (iv) TCRs

(d) Outline the factors that contribute to autoimmunity (6mks)

- (e) Describe giving clinical applications of two agglutination reactions (6mks)
- (f) Outline the basic functions of the complement (4mks)
- (g) Describe the characterization of immune disorders (3mks)

Question TWO

Discuss the factors affecting antigen antibody reactions (20mks)

Question THREE

Explain the intrinsic and extrinsic properties of immunogens (20mks)

Question FOUR

(a) Describe antigen binding by antibodies and T Cell receptors (11mks)

(b) Describe the type two hypersensitivity reaction (9mks)

Question FIVE

(a) Discuss the different classes of Immunoglobulin (10mks)

(b) Describe the phagocytic cells of the immune system (10mks)