



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)