



TECHNICAL UNIVERSITY OF MOMBASA
FACULTY OF APPLIED AND HEALTH SCIENCES
DEPARTMENT OF PURE & APPLIED SCIENCES

UNIVERSITY EXAMINATION FOR:
BTMB

: ABT 4209 IMMUNOCHEMISTRY
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 terms (3mks)
- (i) Allergen
 - (ii) Serology
 - (iii) Immune disorders
- (b) Distinguish between T- dependent and T- independent antigens (4mks)
- (c) Outline the different types of traditional vaccines (4mks)
- (d) Explain the mechanism of action of phagocytes (6mks)
- (e) State the primary lymphoid organs and explain their functions (4mks)
- (f) Describe the type 1 hypersensitivity (6mks)
- (g) Contrast natural and adaptive immunity (3mks)

Question TWO

- (a) Discuss active immunity (13mks)
- (b) Describe the major histocompatibility complex (MHC) class II (7mks)

Question THREE

Explain the role of the following cells of the immune system

- (a) Leukocytes (4mks)
- (b) Killer T cells (9mks)
- (c) B lymphocytes (7mks)

Question FOUR

- (a) Describe the compliment system (10mks)
- (b) Outline the likely causes of autoimmune disease (10mks)

Question FIVE

- (a) Describe the basic structure of an immunoglobulin (10mks)
- (b) Discuss the factors associated with immunologic diseases (10mks)