

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 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(b) Killer T cells(c) B lymphocytes	(4mks) (9mks) (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)