



Technical University of Mombasa

Faculty of Applied and Health Sciences

DEPARTMENT OF PURE AND APPLIED SCIENCES
UNIVERSITY EXAMINATION FOR THE DEGREE OF BACHELOR OF
TECHNOLOGY IN INDUSTRIAL MICROBIOLOGY AND
BIOTECHNOLOGY
BIMBT 11M

SBH 2306 : IMMUNOCHEMISTRY

SPECIAL/SUPPLEMENTARY EXAMINATION

FEBRUARY 2013 SERIES _____ 2
HOURS

Instructions to candidates:

This paper consist of **FIVE** questions

Answer question **ONE** (compulsory) and any other **TWO** questions

Question ONE

- Describe immune defence mechanisms at the mucous membranes **(5marks)**
- With examples, differentiate between acquired immunity and active immunity **(5marks)**
- State the FIVE factors that influence immunogenicity **(5marks)**
- Describe the events associated with neonatal thymectomy **(5marks)**
- Explain the importance of using adjuvants in immunology **(5marks)**

Question TWO

- a) Discuss the immunological implications of tissue transplantation. **(10marks)**
- b) Describe mechanisms of graft rejection. **(10marks)**

Question THREE

Route and dose determine the consequence of IgE mediated responses. Explain using suitable examples. **(20marks)**

Question FOUR

- a) Differentiate between T-dependent and T-independent lymphocyte activation. **(12marks)**
- b) Explain the events leading to type IV hypersensitivity reaction. **(8marks)**

Question FIVE

- a) Describe the following
 - (i) Autograft **(3marks)**
 - (ii) Allograft **(3marks)**
 - (iii) Isograft **(3marks)**
 - (iv) Xenografts **(2marks)**
- b) Describe Transplantation antigens. **(9marks)**