



Technical University of Mombasa

Faculty of Applied and Health Sciences

DEPARTMENT OF ENVIRONMENT AND HEALTH SCIENCES

DIPLOMA IN COMMUNITY HEALTH AND HIV MANAGEMENT
(DCH 13J)

AMD 2104 : BASIC IMMUNOLOGY

SPECIAL /SUPPLEMENTARY: EXAMINATIONS

SERIES: OCTOBER 2013

TIME: 2 HOURS

INSTRUCTIONS:

You should have the following for this paper

- *Answer booklet*

This paper consists of **FIVE** questions.

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

This paper consists of 2 PRINTED pages

Question ONE

- a) Briefly describe the work of Louis Pasteur in his contribution in immunology **(5marks)**
- b) Describe the role of lymphocytes in the immune process. **(5marks)**
- c) Describe the role of the skin and mucosa in innate immunity **(10marks)**
- d) Outline the cell mediated immune response **(10marks)**

Question TWO

- a) Illustrate the antibody structure **(10marks)**
- b) Briefly describe phagocytosis **(5marks)**

Question THREE

- a) List the functions of the complement system **(3marks)**
- b) Briefly describe the following
 - (i) Different types of transplants **(8marks)**
 - (ii) Barriers to successful transplantation **(4marks)**

Question FOUR

- a) Describe the complement system which begins with the activation of C_1 **(10marks)**
- b) Why is the kidney the most transplanted organ **(5marks)**

Question FIVE

Discuss hypersensitivity reactions **(15marks)**