



THE MOMBASA POLYTECHNIC UNIVERSITY COLLEGE

(A CONSTITUENT COLLEGE OF JKUAT)

(A Centre of Excellence)

Faculty of Applied and Health Sciences

DEPARTMENT OF **PURE AND APPLIED SCIENCES**DIPLOMA IN SCIENCE LABORATORY TECHNOLOGY
(DSLT 12J)

ABT 2204: IMMUNOLOGY

SPECIAL/SUPPLEMENTARY: EXAMINATIONS

SERIES: FEBRUARY 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) Define the term (i) Immunology (ii) Phagocytosis b) Differentiate between passive specific from active specific immunity c) Outline characteristics of innate immunity d) Explain the derailment of compliment system by pathogenic microbes. e) Describe the characteristics of natural kill or cells f) State the biological roles of IgE. g) Outline the importance of macrophage in cell mediated immunity h) State the stages of phagocytosis Question TWO Discuss hypersensitivity reaction under the following	(2marks) (2marks) (4marks) (2marks) (5marks) (5marks) (4marks) (4marks) (2marks)
(i) Causes(ii) Mechanism of archer	
(iii) Correction	(15marks)
Question THREE	,
a) Describe the types of graftsb) Graft rejection is immunological. Explain.	(10marks) (5marks)
Question FOUR	
Discuss mechanism of innate immunity	(15marks)
Question FIVE	
a) Discuss antigen – antibody interations as the basis for most clinical assays.b) Define the following terms:	(10marks)
(i) Affinity (ii) Avidity (iii) Specicificity (iv) Cross reactivity (v) Antigen	(1mark) (1mark) (1mark) (1mark) (1mark)