



KENYATTA UNIVERSITY

UNIVERSITY EXAMINATIONS 2011/2012

SECOND SEMESTER EXAMINATION FOR THE DEGREE OF MASER OF SCIENCE

HML 510: CELLULAR IMMUNOLOGY

DATE: Friday 30th March, 2012

TIME: 9.00 a.m. – 12.00 noon

INSTRUCTIONS

Answer any **THREE** Questions (30 Marks each)

- Q.1) (a) Trace the path of the T lymphocyte from the bone marrow to the Spleen. (15 marks)
- (b) Describe the role of thymus in T cell maturation. (15 marks)
- Q.2) (a) Discuss the anatomy of mucosal associated lymphoid tissue. (20 marks)
- (b) Identify and discuss the function of the following key antigens on T cells: CD2, CD3, CD4, CD8. (10 marks)
- Q.3) (a) Discuss the phagocytes and their role in immune response. (30 marks)
- Q.4) (a) Explain the 3 different mechanisms of apoptosis. (20 marks)
- (b) What is clinical role of apoptosis? (10 marks)