



MASENO UNIVERSITY

UNIVERSITY EXAMINATIONS 2017/2018

FIRST YEAR FIRST SEMESTER EXAMINATIONS FOR THE DEGREE OF MASTER OF SCIENCE IN BIOMEDICAL SCIENCES

CITY CAMPUS

PMT 815: ADVANCED IMMUNOLOGY

Date: 17th March, 2018

Time: 8.00 - 11.00am

INSTRUCTIONS:

- Answer Question ONE and any other FOUR.



1. Describe the structural and cellular organization of the lymph nodes (20 marks).
2. Discuss the maturation and developmental process of a B lymphocyte (20 marks).
3. Discuss the immunological mechanism employed against bacterial and fungal infections (20 marks).
4. Describe the structure and the role of the human major histocompatibility complex class I molecule in the control of human immunodeficiency virus infection (20 marks).
5. Vertebrates have complex immune system. Discuss this statement in the context of evolution of the immune system in animal Kingdom (20 marks).
6. Discuss the role of cytokines in immunity (20 marks).