



**W1-2-60-1-6**

**JOMO KENYATTA UNIVERSITY OF AGRICULTURE AND TECHNOLOGY  
UNIVERSITY EXAMINATIONS 2019/2020 EXAMINATION FOR THE DEGREE OF  
MASTER OF SCIENCE IN MEDICAL ENTOMOLOGY  
SZL 3124: IMMUNOLOGY OF PARASTIC INFECTIIONS**

**DATE: FEBRUARY 2020**

**TIME: 3 HOURS**

**INSTRUCTIONS: Answer any four questions.**

1. Discuss the role of the MHC in the immune responses. (25 marks)
2. Describe the innate recognition of malaria-derived molecules and infected red blood cells. (25 marks)
3.
  - a. Describe the immune responses to the infective L3 of filarial nematode infections. (15 marks)
  - b. Discuss how the filarial parasites evade the immune system. (10 marks)
4.
  - a. Explain the vaccine targets in the malaria life cycle. (10 marks)
  - b. Discuss potential mechanisms of nematode-induced immunodulation and suppression of inflammatory disease. (15 marks)
5.
  - a. Explain co-infection. (5 marks)
  - b. Compare host immunity in plasmodium and HIV infections. (20 marks)
6. Discuss the Th1/Th2 paradigm in co-infections. (25 marks)