



MAASAI MARA UNIVERSITY

UNIVERSITY EXAMINATIONS 2018/2019 ACADEMIC YEAR

FOURTH YEAR SEMESTER TWO UNIVERSITY EXAMINATIONS

FOR THE DEGREE OF BACHELOR OF SCIENCE

COURSE CODE: ZOO 421E

COURSE TITLE: PARASITOLOGY II

DATE: APRIL 2019

TIME:

DURATION: 2hrs

INSTRUCTIONS TO CANDIDATE

ANSWER ALL QUESTIONS IN SECTION "A" AND ANY TWO IN SECTION "B"

ILLUSTRATE YOUR ANSWERS WITH APPROPRIATE DIAGRAMS AND EXAMPLES

SECTION A COMPULSORY. ALL ANSWER ALL QUESTIONS 30MARKS

1. State the role of IgE in immune defence. (3marks)
2. Define the terms:
 - a) Prevalence (1 mark)
 - b) Active surveillance (1 mark)
 - c) Pandemic (1 mark)
3. Explain how parasites persist within their hosts. (3marks)
4. Distinguish between the terms:
 - a) "Iceberg of disease and Spectrum of disease
 - b) Endemic and epidemic (3marks)
5. Give 3 types cytotoxic proteins found in neutrophils. (3marks)
6. State 3 host susceptibility factors to parasitic infections. (3marks)
7. Write short notes on antigenic variation. (3marks)
8. Explain the role of APCs in immunity against parasitic infection. (3marks)
9. Explain how *Plasmodium* evades immune attack. (3marks)
10. Explain briefly why parasites rarely kill their hosts. (3marks)

SECTION B Answer two questions 20marks each

11. Giving examples, discuss the immunological mechanisms used by parasites to evade immune attack (20marks)
12. Explain how immune cells attack parasites. (20marks)
13. Discuss adaptations of parasites to parasitism. (20marks)
14. Discuss the epidemiological control of schistosomiasis. (20marks)