



EMBU UNIVERSITY COLLEGE
(A CONSTITUENT COLLEGE OF THE UNIVERSITY OF NAIROBI)

FIRST SEMESTER EXAMINATION 2014/2015

FIRST YEAR EXAMINATION FOR THE DEGREE OF MASTER OF SCIENCE IN
ENTOMOLOGY

SZL 575: APPLIED MOLECULAR BIOLOGY AND IMMUNOLOGY OF PARASITIC
INFECTIONS

DATE: DECEMBER 16, 2014

TIME: 13:30 – 15:30

INSTRUCTIONS:

Answer Question ONE and ANY Other THREE Questions.

QUESTION ONE

Describe the recent technological developments in molecular biology applied in the diagnosis of parasitic diseases. (25 marks)

QUESTION TWO

Discuss the host immune responses to malaria and schistosomiasis in humans. (25 marks)

QUESTION THREE

What is PCR? Describe in detail the steps involved in PCR technique and elaborate on its advantages and disadvantages. (25 marks)

QUESTION FOUR

Discuss the immunological consequences of parasitic infections. (25 marks)

QUESTION FIVE

Describe the strategies that parasites employ to evade host defense mechanisms. (25 marks)

--END--