

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

## JOMO KENYATTA UNIVERSITY

**OF**

**AGRICULTURE AND TECHNOLOGY**

# UNIVERSITY EXAMINATIONS 2015/2016

**THIRD YEAR FIRST SEMESTER EXAMINATION FOR THE DEGREE OF**

**BACHELOR OF SCIENCE IN MEDICAL MICROBIOLOGY**

**MMB 2370: DIAGNOSTIC MEDICAL MICROBIOLOGY**

**DATE: APRIL 2016 TIME: 2 HOURS**

**INSTRUCTIONS: ANSWER QUESTION ONE (COMPULSORY) AND ANY**

**OTHER TWO QUESTIONS**

**QUESTION ONE (30 MARKS)**

1. Outline rapid diagnostic test methods for detection of Herpes

Simplex virus. [3 marks]

1. Briefly describe the laboratory diagnosis of streptococcus

pharyngitis infection. [6 marks]

1. Describe:
2. KoH preparation [3 marks]
3. Indian ink wet mount stain [3 marks]
4. Briefly describe isolation and culture identification method of

salmonella and shigella in a stool sample. [6 marks]

1. Explain the advantages and disadvantages of thick and thin

blood films in malaria diagnosis. [6 marks]

1. Outline the rapid diagnostic test methods for Neiserria gonrrhoea. [3 marks]

**QUESTION TWO (20 MARKS)**

Discuss laboratory diagnosis of anaerobic infections.

**QUESTION THREE (20 MARKS)**

Discuss viral diagnostic methods.

**QUESTION FOUR (20 MARKS)**

Discuss urine analysis and culture methods.