

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

**JOMO KENYATTA UNIVERSITY OF AGRICULTURE AND TECHNOLOGY**

**UNIVERSITY EXAMINATIONS 2019/2020**

**THIRD YEAR FIRST SEMESTER EXAMINATION FOR THE DEGREE OF BACHELOR OF SCIENCE IN MEDICAL MICROBIOLOGY**

**MMB 2304: DIAGNOSTIC MEDICAL MICROBIOLOGY**

**DATE: DECEMBER, 2019 TIME: 2 HOURS**

INSTRUCTION: ANSWER QUESTION ONE (COMPULSORY) AND ANY OTHER TWO QUESTIONS

**QUESTION ONE: 30 MARKS**

a. Describe the cultural isolation of:-

 i. Bacteroides fragilis. (3 marks)

 ii. Peptostreptococcus magnus. (3 marks)

b. Describe:-

 i. Germ tube test. (2 marks)

 ii. KoH preparation. (2 marks)

 iii. Indian ink staining. (2 marks)

c. Describe the laboratory diagnosis streptococcal pharyngitis infection. (6 marks)

d. Describe rapid diagnostic tests for detection of respiratory secretion samples. (6 marks)

e. Describe methods of establishing anaerociosis when diagnosing anaerobic pathogens. (6 marks)

**QUESTION TWO: 20 MARKS**

Discuss the general diagnostic methods of viruses.

**QUESTION THREE: 20 MARKS**

Discuss the analysis of a CSF sample.

**QUESTION FOUR: 20 MARKS**

Discuss the diagnosis of malaria.