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

**JOMO KENYATTA UNIVERSITY OF AGRICULTURE AND TECHNOLOGY**

**UNIVERSITY EXAMINATIONS 2019/2020**

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

**MMB 2108: VECTOR BIOLOGY**

**DATE: APRIL, 2020 TIME: 2 HOURS**

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

**QUESTION ONE: 30 MARKS**

a. Define the following terminologies:-

 i. Arthropods. (2 marks)

 ii. Cyclo - propagative. (2 marks)

 iii. Trans-stadial transmission. (2 marks)

b. i. Outline the classification of malarial mosquito. (3 marks)

 ii. State the diseases transmitted by mosquito. (3 marks)

c. Citing examples, differentiate between class insecta and class arachnida.

(6 marks)

d. Describe any three vector-borne bacterial infections of man. (6 marks)

e. Outline the importance of studying disease vectors. (6 marks)

**QUESTION TWO: 20 MARKS**

Discuss various viral infections transmitted by vectors to human.

**QUESTION THREE: 20 MARKS**

Discuss the series of sequential steps during reproductive cycle for vectors.

**QUESTION FOUR: 20 MARKS**

Discuss various methods of vector control.