

**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 2307: EPIDEMIOLOGY**

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

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

**QUESTION ONE: 30 MARKS**

a. Define the following terms:

 i. Incidence (1 mark)

 ii. Prevalence (1 mark)

 iii. Mortality (1 mark)

 iv. Marbiding (1 mark)

 v. Pandemic (1 mark)

 vi Virulence (1 mark)

b. Briefly describe the components of case definition. (6 marks)

c. Outline three advantages and three disadvantages of case- control studies. (6 marks)

d. Describe briefly the factors that may lead to an epidemic. (6 marks)

e. Describe briefly different types of reservoirs in disease infection.

 (6 marks)

**QUESTION TWO: 20 MARKS**

Discuss the factors that contribute to disease occurrence.

**QUESTION THREE: 20 MARKS**

Discuss different models used in studying disease causation.

**QUESTION FOUR: 20 MARKS**

John Snow is known as the “father of epidemiology”. Discuss.