

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

**JOMO KENYATTA UNIVERSITY OF AGRICULTURE AND TECHNOLOGY**

# **UNIVERSITY EXAMINATIONS 2014/2015**

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

**SBT 2372 : EPIDEMIOLOGY**

**DATE: DECEMBER 2014 TIME: 2 HOURS**

**INSTRUCTIONS:**

**ANSWER QUESTION ONE AND ANY OTHER TWO QUESTIONS**

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**QUESTION ONE [30 MARKS]**

1. Briefly discuss the different time trends used in describing epidemiological data [6 marks]
2. Differentiate the following terms
3. Transovarial and transtadial transmission [3 marks]
4. Point and period prevalence [3 marks]
5. Enumerate the molecular Koch’s postulates [5 marks]
6. Discuss briefly the significance of antigenic variation in epidemiology [6 marks]
7. Write short notes about modern quarantine [7 marks]

**QUESTION TWO [20 MARKS]**

Discuss factors that contribute to current emerging and re-emerging disease patterns

**QUESTION THREE [20 MARKS]**

HIV is the cause of AIDS. Discuss.

**QUESTION FOUR [20 MARKS]**

Discuss different approaches applied in breaking the chains of infectious diseases