

**JARAMOGI OGINGA ODINGA UNIVERSITY OF
SCIENCE AND TECHNOLOGY
UNIVERSITY EXAMINATIONS 2013/2014
FIRST YEAR SECOND SEMESTER
EXAMINATIONS FOR THE DEGREE OF MASTER
OF PUBLIC HEALTH**

KISII LEARNING CENTRE

COURSE CODE: HMP 5135

**TITLE: DISEASE SURVEILLANCE AND OUTBREAK
INVESTIGATION**

DATE:

TIME:

DURATION: 3 HOURS

INSTRUCTIONS

- 1. THIS PAPER CONTAINS SIX QUESTIONS.**
- 2. ANSWER ANY FOUR QUESTIONS.**
- 3. WRITE ALL ANSWERS IN THE BOOKLET PROVIDED**

Q1. Describe;

(a) The challenges in the current disease surveillance systems especially in third world countries. **(8 marks)**

(b) The measures you would take as a county surveillance officer to Improve data collection in integrated disease surveillance systems **(7 marks)**

Q2. You are the epidemiologist in charge of a county health Intervention programme in Kisii. An acute outbreak of Cholera has been reported in the region. Describe how you would investigate and control the outbreak.

(15 marks)

Q3. Discuss the relevance of Disease surveillance systems in developing countries.

(15 marks)

Q4. (a) With appropriate examples explain **four** surveillance indicators for evaluating the efficiency of a typical Disease surveillance system. **(8 marks)**

(b) Explain the **strengths** and **limitations** of registries as sources of health data. **(7marks)**

Q5. Pneumonia and Urinary tract infections have increasingly become the most common Nosocomial Infections in Africa. Describe the standard measures by CDC that may be employed in hospital management to control and prevent such infections. **(15 marks)**

6. (a) Describe the role of incubation period in the infectious disease epidemiology. **(4 marks)**

(b) Since 1991 emerging and resurgent infectious diseases such as Ebola have occurred worldwide. Describe the contributory factors in the global emergence and Re - emergence of infectious diseases. **(11marks)**