

JARAMOGI OGINGA ODINGA UNIVERSITY OF SCIENCE AND TECHNOLOGY
UNIVERSITY EXAMINATIONS 2012/2013
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

Answer Question 1 (Compulsory) And Any Other Three Questions.

Q1. (a) Describe the challenges encountered by health workers in the core steps and functions of a typical routine disease surveillance and reporting system in Kenya.

(8 marks)

(b) Discuss the role of Disease surveillance systems in developing countries.

(7marks)

Q2. You are the epidemiologist in charge of a county health Intervention programme in Kisii. An acute outbreak of an infectious disease has been reported in the region.

Describe how you would investigate and control the outbreak. **(15 marks)**

Q3. (a) Write short notes on the following concepts:

(i) Passive surveillance **(4 marks)**

(ii) Determinants of incubation period of diseases. **(4 marks)**

(b) By aid of relevant examples describe the different types of epidemics that are common in human populations. **(7 marks)**

Q4. (a) Discuss the **advantages** and **limitations** of the following sources of health data;

(i) Registries **(5 marks)**

(ii) Hospital records **(6 marks)**

(b) State factors necessary for herd immunity in human populations. **(4 marks)**

Q6. Pneumonia and wound associated infections have become common nosocomial infections in children wards in Kenya. Discuss the measures you would take in controlling such infection. **(15 marks)**