



**JARAMOGI OGINGA ODINGA UNIVERSITY OF SCIENCE AND TECHNOLOGY
SCHOOL OF HEALTH SCIENCES**

**UNIVERSITY EXAMINATION FOR THE DEGREE OF BACHELOR OF SCIENCE
PUBLIC HEALTH/ COMMUNITY HEALTH AND DEVELOPMENT**

4TH YEAR 2ND SEMESTER 2016/2017 ACADEMIC YEAR

KISII CAMPUS - PART TIME

COURSE CODE: HPD 3414

**COURSE TITLE: PUBLIC HEALTH SURVEILLANCE AND
INFORMATICS**

EXAM VENUE: LR 17

STREAM (BSC CHD & PH)

DATE: 21/12/16

EXAM SESSION: 2.00 – 4.00 PM

TIME: 2.00 HOURS

Instructions:

- 1. Answer all questions in section A and any other 2 questions in Section B.**
- 2. Candidates are advised not to write on the question paper**
- 3. Candidates must hand in their answer booklets to the invigilator while in the examination room**

SECTION A (30 MARKS)

1. Explain **five** limitations of hospital records in public health surveillance. **(5 marks)**
2. Describe the role of public health surveillance in modern healthcare. **(5 marks)**
3. Discuss **six** measures that may be taken to improve data collection in public health Surveillance. **(6 marks)**
4. Explain **six** reasons for the integration of computers in public health surveillance. **(6 marks)**
5. Discuss **five** criteria for prioritizing health problems for surveillance. **(5 marks)**
6. Explain **three** impediments of good quality data in Health Information systems. **(3 marks)**

SECTION B (40 MARKS)

1. (a) Decisions made based on sound information improve the management of patients, health units and health systems. Discuss the ways to enhance the use of information in decision making within the health information system. **(10 marks)**

(b) Discuss the **advantages** of the following sources of health data;
 - (i) Registries **(5 marks)**
 - (ii) Notification **(5marks)**
2. (a) You have been invited to an inter –county forum to present a talk on the principles in the restructuring of public health surveillance systems within the county. Describe the basic principles that you would include in your talk during the forum. **(12 marks)**

(b) Discuss the criteria of a good public health surveillance system according to CDC. **(8 marks)**
3. (a) Discuss the challenges associated with the current public health surveillance Information systems in Kenya. **(10 marks)**

(b) Explain **five** roles of ICT in public healthcare of third world countries. **(10 marks)**
4. (a) Evaluate the advantages and disadvantages of patient retained cards in healthcare. **(10 marks)**

(b) Discuss the basic steps in the assessment of public health surveillance systems. **(10 marks)**