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

UNIVERSITY EXAMINATION FOR BSc. PUBLIC HEALTH

4th YEAR 1st SEMESTER 2018 ACADEMIC YEAR

KISII CAMPUS

COURSE CODE: HPD 3414

COURSE TITLE: PUBLIC HEALTH SURVEILLANCE & INFORMATICS
EXAM VENUE: STREAMS: (Bsc. Public health)

DATE: DECEMBER, 2018   EXAM SESSION:

TIME: 1.5 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: Any <u>ALL</u> questions

Question 1

i. Define the following terms
     a. Public health Surveillance   (1mk)
     b. Health informatics   (1mk)
     c. Data   (1mk)
     d. Information   (1mk)
ii.   Give four reasons why surveillance is outcome oriented   (4mks)
iii. State why it is important to use public health surveillance   (5mks)
iv.   State 4 sources of public health surveillance data   (4mks)
v.   State 5 measure needed to improve data collection methods within HIS   (5mks)
vi.   Give 2 purposes of public health surveillance   (2mks)
vii. State the applications of informatics in public health   (4mks)
viii. Give two types health surveys   (2mks)

Section B: Answer <u>any 2</u> questions

2. a. Explain any 5 core functions of surveillance systems   (10mks)

   b. state and explain 5 types of surveillance   (10mks)

3. a. Explain any 5 uses of public health surveillance   (10mks)

   b. Elaborate 5 characteristics of good surveillance systems   (10mks)

4. Explain the challenges associated with the current health management information systems (20mks)

5. a. Explain the role of ICT in healthcare and health information system management and public health system (10mks)

   b. Give any 5 methodological steps in restructuring of health information systems (10mks)