



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

UNIVERSITY EXAMINATION FOR BSc. PUBLIC HEALTH

4th YEAR 1st SEMESTER 2019 ACADEMIC YEAR

KISII CAMPUS

COURSE CODE: HPD 3414

COURSE TITLE: PUBLIC HEALTH SURVEILLANCE & INFORMATICS

EXAM VENUE:

STREAMS: (Bsc. Public health)

DATE: DECEMBER, 2019

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 ALL 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 any 2 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)