



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

UNIVERSITY EXAMINATION FOR DEGREE OF MASTER PUBLIC HEALTH

1ST YEAR 1ST SEMESTER 2023/2024 ACADEMIC YEAR

KISUMU CAMPUS

COURSE CODE:	HMP 5135
COURSE TITLE:	DISEASE SURVEILLANCE & OUT BREAK INVESTIGATION
EXAM VENUE:	STREAM:
DATE:	EXAM SESSION:
TIME:	3.00 HOURS

Instructions:

1. Answer **Question One (1) that is compulsory** and any other TWO (2) questions.
2. Candidates **MUST** not to write anything on the question paper.
3. Candidates **MUST** hand in their answer booklets to the invigilator while in the examination room.

SECTION A

- 1 (a) Imagine that you have been identified by an organization operating in your county of choice dealing health promotion and they organized a conference that you were invited to be one of the key note speakers and your area of sharing was concerned with causation of disease. Describe the explanation you will share with participants concerning the two importance of surveillance in serving and controlling disease (20 Marks).
- 1 (b) Imagine that you applied for a consultancy with an organization of your choice that deals in disease prevention. During your assessment, you identified that the organization is supposed to be included disease surveillance system in their operations. Describe in details FIVE purposes why it is very important to in-cooperate disease surveillance system in their operations as an organization (10 Marks).
2. (a) During your engagement with the County government of your choice you did rapid assessment of disease control and you established that that it was necessary to put more efforts on disease surveillance and out-break investigation to reduce the prevalence of communicable diseases in the County significantly. Explain clearly FIVE ideal characteristics of surveillance system that you will ensure that are adhered to for the program to succeed (10 Marks).
2. (b) Assume that you have been employed by and organization that deals with disease prevention and control within a region and you identified that for the organization to achieve its goals effectively. The organization must involve in different types of surveillance for implementation of the various activities. Discuss two main types of surveillance that you would advise the organization to employ in-order to achieve its main objective effectively (10 Marks).
3. Public health practice experienced different achievements during the 20th Century and these were realized as a result of implementation of disease surveillance and out-break strategies. Discuss in details FOUR steps of surveillance that were employed and can be applied in the 21st Century for achievement of better health out-comes (20 Marks).
4. Assume that you have been tasked by County health management team you being a public health expert to help them understand some issues about the disease surveillance and outbreak investigation. Discuss in details FIVE roles of field epidemiologists in providing evidence who will be involved in the process (20 Marks).