



**MASINDE MULIRO UNIVERSITY OF
SCIENCE AND TECHNOLOGY
(MMUST)
MAIN CAMPUS
UNIVERSITY EXAMINATIONS
MAIN EXAM**

2021/2022 ACADEMIC YEAR

**SECOND YEAR SECOND SEMESTER EXAMINATION
FOR THE MASTER OF SCIENCE IN PUBLIC HEALTH**

COURSE CODE: PHE 822

COURSE TITLE: DISEASE SURVEILLANCE AND INVESTIGATION

DATE: -26TH APRIL 2022

TIME: 2.00PM – 5.00PM

INSTRUCTIONS TO CANDIDATES:

1. Write your University Registration Number on every booklet that you use.
2. Do not write your name on any papers you use.
3. Answer all questions.
4. The time allowed for this Paper is **Three (3)** hours.

Observe carefully further instructions on the cover of Answer Booklets

MMUST observes ZERO tolerance to examination cheating

Paper Consists of 2 Printed Pages. Please Turn Over



LAQ 1

In January, 2020, a report of increasing number of cases of fever with joint pains was reported among Dadaab refugee population. The initial report was negative for malaria. The Ministry of Health on receiving this report requested your health department, to carry out field investigation. Your health department field team started preparation to undertake field Investigation. Outbreak investigation demands specific and systematic steps that must be employed to initiate field investigations.

Discuss the STEPS you will take in investigation of the above outbreak (20 Marks)

LAQ 2

- a) Describe the steps in designing a questionnaire for a public health field investigation (10 Marks)
- b) Compare Open and closed response questions by giving two (2) advantages and two (2) disadvantages for each (10 Marks)

LAQ 3

In the recent years there have been recurrent outbreaks of Anthrax in a region in Kenya. Due to this trend, the Ministry of Health (MOH) is considering to conduct a community survey on Anthrax in the region. A team of epidemiologists was tasked to carry out this survey. As a guide in planning for your survey, describe the steps you will take in designing and carrying out the survey (20 Marks)

LAQ4

Explain public health surveillance under the following headings

- (a) Definition of public health surveillance (5 Marks)
- (b) Uses of public health surveillance, giving examples (10 Marks)
- (c) Types of public health surveillance (5 Marks)