



MASINDE MULIRO UNIVERSITY OF SCIENCE AND TECHNOLOGY

(MMUST)

MAIN CAMPUS

UNIVERSITY EXAMINATIONS

MAIN EXAM

2023/2024 ACADEMIC YEAR

YEAR ONE/SEMESTER ONE EXAMINATION

MASTER OF PUBLIC HEALTH

COURSE CODE: PHC 811

COURSE TITLE: ADVANCED EPIDEMIOLOGY

DATE: 14TH DECEMBER, 2023

TIME: 8.00AM-11.00AM

INSTRUCTIONS TO CANDIDATES:

There are five Questions in this paper. Answer question 1 and any other three questions.

Time 3: Hours

Each question has 25 Marks.

- 1. Trace the evolution of epidemiology with respect to the contributions of the following:
 - a) Early causal explanations of epidemics (5 Marks)
 - b) Hippocrates (5 Marks)
 - c) John Graunt, (5 Marks)
 - d) John Snow (5 Marks)
 - e) Framingham Heart Study (5 Marks)
- 2. Discuss the following:
 - a) Analytical epidemiology(5 Marks)
 - b) Rate
 - c) Descriptive Epidemiology(5 Marks)
 - d) Determinants of disease(5 Marks)
 - e) Prevalence (5 Marks)
- 3. Discuss the design, strengths and limitations of cohort design in epidemiologic studies (25 Marks)
- 4. Discuss 5 important data sources that can be used in epidemiologic studies(25 Marks)
- 5. Discuss rate is an important measure in measures of morbidity and mortality in epidemiology(25 Marks)