

MASINDE MULIRO UNIVERSITY OF SCIENCE AND TECHNOLOGY (MMUST)

SCHOOL OF PUBLIC HEALTH BIOMEDICAL SCIENCES AND TECHNOLOGY

DEPARTMENT: PUBLIC HEALTH

UNIVERSITY EXAMINATIONS

2022/2023 ACADEMIC YEAR

DOCTOR OF PHILOSOPHY IN PUBLIC HEALTH

COURSE CODE: PHE 923

COURSE NAME: ADVANCED EPIDEMIOLOGIC STUDIES

DATE: 26TH APRIL 2023

TIME: 8.00AM-11.00AM

INSTRUCTIONS TO CANDIDATES:

General Instructions

- 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 FIVE questions
- 4. The time allowed for this Paper is Three (3) hours.
- 5. Observe carefully further instructions on the cover of Answer Booklets.

1.	Give a comparative overview of the different study designs used in epidemiology and public
	health. (20 marks).

- 2. Discuss case-controlled studies;
 - a) **both** in general, including the advantages, cases/matching cases& controls, analysis, confounders; (10 marks)
 - b) and **in comparison** to other types of studies. (10 marks)
- 3. What is the CONSORT Statement? Why was it introduced? What led to the CONSORT Statement coming into being? (20 marks)
- 4. In cohort studies, we have both prospective and retrospective designs.
 - a) Give a detailed example of each type. (10 marks)
 - b) Discuss the attributes of cohort studies, including Relative Risk (RR), advantages & disadvantages, loss to follow-up. (10 marks)
- 5. Sources of error in epidemiological research is an area of great concern. Discuss the factors that contribute to both random and systematic error. (20 marks)