



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

**UNIVERSITY EXAMINATION FOR THE DEGREE OF MASTER OF PUBLIC HEALTH /MSc.
Epidemiology and Disease Control/Biostatistics)**

**1ST YEAR 1ST SEMESTER 2024/2025 ACADEMIC YEAR
KISUMU CAMPUS**

**COURSE CODE: HES 5112
COURSE TITLE: DEMOGRAPHY AND POPULATION HEALTH
EXAM VENUE:
DATE: EXAM SESSION:
TIME: 3.00 HOURS**

Instructions:

- 1. Answer question 1 (Compulsory) and any other THREE questions**
- 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.**

Answer question **ONE** and **THREE** other questions.

1. Make short notes on the following:
 - i. Census (3 Marks).
 - ii. Vital Registration (3 Marks).
 - iii. Sample Surveys (3 Marks).
 - iv. Population Register (3 Marks).
 - v. Demographic Surveillance System (3 Marks).

2. The demographic data shown is for community A. Use it to answer questions that follow.

Table 1 Demographic Data of community A

Age (yrs)	Population by 1 st July 2021	No. of Deaths (2021)
0 - 4	139	18
5 - 9	127	10
10 - 14	122	09
15 - 19	100	11
20 -24	120	06

- i. Estimate Age-Specific-Mortality Rates (5 marks).
 - ii. Which age would be at the greatest risk and why? (2 marks).
 - iii. Explain steps that may be used to investigate disease burden in community A (8 marks)
-
3. Discuss Malthusian Population Growth Theory. Draw examples globally and locally (15 Marks).

 4. Explain different surveillance strategies used to track and investigate notifiable events (15 Marks).

 5. You are planning to undertake a Demographic and Health Survey (DHS). Highlight and explain health indicators which you would capture to make an in-depth understanding of the health status of the community (15 marks).

 6. Discuss the most important ways that infectious diseases are affected by globalization (15 marks).