



**AMREF INTERNATIONAL UNIVERSITY**  
**UNIVERSITY EXAMINATIONS APRIL 2023**  
**SCHOOL OF PUBLIC HEALTH**  
**FIRST YEAR SEMESTER ONE/ TWO EXAMINATION**  
**DEPARTMENT OF COMMUNITY HEALTH**  
**MASTER OF PUBLIC HEALTH**

**MAP 719:** Applied Demography

**DATE:** April 25<sup>th</sup>, 2023

**TIME:** 3 Hours

**Start:** 4.00pm

**Finish:** 7.00pm

**INSTRUCTIONS**

1. This exam is marked out of 100 marks
2. The first question is compulsory
3. Answer an additional three (3) questions from the other five (5)
4. The exam shall take 3 hours

## **COMPULSORY**

### **Question 1**

- a) Describe the 3 components of demography, outlining their application in health and development **(6 marks)**
- b) Explain the characteristics of each of the 3 phases of the demographic transition theory **(6 marks)**
- c) Describe the 'mid-year population' as a concept and its rationale in establishing best measures of demographic events **(5 marks)**
- d) Distinguish the following demographic measures:
- i) Stable population and stationary population **(2 marks)**
  - ii) Neo-natal and Post-natal mortality **(2 marks)**
  - iii) Gross Migration Rate and Net Migration Rate **(2 marks)**
  - iv) Population explosion and Population Trap **(2 marks)**

## **ANSWER ANY THREE (3) QUESTIONS**

### **Question 2**

Using a country that you are familiar with, discuss the six (6) sources of demographic data outlining the common errors and how such errors can be minimized **(25 marks)**

### **Questions 3**

Describe the key fertility trends experienced in sub-Saharan Africa and discuss the population policies that governments have adopted in addressing these trends **(25 marks)**

### **Question 4**

Using the Mosley and Chain model of 1984, discuss the proximate and underlying factors as determinants of child survival in a country that you are familiar with **(25 marks)**

### **Question 5**

Using a city in sub-Africa as an example, explain how the migration patterns into the urban center has influenced the health status of residents **(25 marks)**

### **Question 6**

Using a population sub-group of your choice, evaluate a recent interventional pathway used to address the health and development concerns related to the sub-group in a country you are familiar and suggest how optimal results can be achieved **(25 marks)**

**Good Luck**