



JARAMOGI OGINGA ODINGA UNIVERSITY OF SCIENCE AND TECHNOLOGY

SCHOOL OF HEALTH SCIENCES

**UNIVERSITY EXAMINATION FOR THE DIPLOMA IN COMMUNITY HEALTH
AND DEVELOPMENT**

2ND YEAR 2ND SEMESTER MAY-AUG 2019

KISUMU CAMPUS

COURSE CODE: HDC 2222

**COURSE TITLE: INTRODUCTION TO DEMOGRAPHY AND POPULATION
STUDIES**

EXAM VENUE: STREAM

DATE: 15/08/19

EXAM SESSION: 9.00 – 10.30AM

TIME: 1.30 HOURS

Instructions:

- 1. Answer all questions in section A and any other 2 questions in Section B.**
- 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**

SECTION A: ANSWER ALL THE QUESTIONS (30 MARKS)

1. Give three reasons why civil registration is done in Kenya .(3 marks)
2. State three static aspects of demography characteristics. (3 marks)
3. State any three live birth registration data in demography. (3 marks)
4. List three methods for measuring Fertility and Mortality in Kenya (3 marks)
5. Define the following terms:
 - i. Crude birth rate (1 mark)
 - ii. Census (1 mark)
 - iii. Rate of natural increase (1 mark)
 - iv. Dependency ratio(1 mark)
 - v. Crude death rate (1 mark)
6. Calculate the maternal mortality rate and ratio for Kenya (2015) based on the following data

Kenya 2015

Births 234567

Maternal deaths 200

W 24567

15-49

- i) Maternal mortality rate(2 marks)
- ii) Maternal mortality ratio(2 marks)
7. Explain the following term as used in demographic data collection:
 - i. De facto method (1 mark)
 - ii. De jure method (1 marks)
8. In 1999, the population of Kenya was 20, 000, 000, this grew to 40 000 000 in 2016.
 - a) What is the annual percentage growth rate for Kenya (2 mark)
 - b) How long will it take for the population to double that of 1999 (2 marks)
 - c) Estimate the population in 2045 (3 marks)

SECTION B: ANSWER ANY TWO QUESTIONS FROM THIS SECTION (30 MARKS)

1. A survey was conducted at Kisumu city in January 2015. It revealed a total population of 324,000 (166,500 males and 142,500 females). Total number of children born alive during the year was 16,400. The survey has also recorded a total of 5235 deaths (3100 males and 2235 females) during the same year. The survey has also identified the following deaths among the population.
 - Children < 1 month = 170
 - Children 1 month - 11 months =1200
 - Children 0 year – 4 years = 1215
 - Death of mothers during pregnancy and child birth =120

Calculate the following rate from the above information: - (15 marks)

- a. Under 5 Mortality Rate (2 marks)
 - b. Neonatal Morality Rate (2 marks)
 - c. Sex Specific Mortality Rate for Females (2 marks)
 - d. Sex specific Mortality Rate for Males (2marks)
 - e. Maternal Mortality Rate (1 marks)
 - f. Crude Birth Rate (2 marks)
 - g. Crude Death Rate (2 marks)
 - h. Infant Mortality Rate (2marks)
2. Migration has both positive and negative impacts in health and development, by use of relevant examples discuss that statement. (15 marks)
 3. Discuss the impact of population growth on public health and environment in relation to the spread and causes of diseases (15 marks)
 4. One of the millennium development goals to achieve Vision 2030 was to reduce infant and maternal deaths. From your understanding has infant and maternal mortality rate in Kenya reduced? Critically analyze your answer with a yes or no. (15 marks)

JUUST observes zero tolerance to exam cheating