



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 SEPT-DEC 2018

KISUMU LEARNING CENTRE

COURSE CODE: HDC 2222

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

EXAM VENUE:

STREAM

DATE:

EXAM SESSION:

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. In 1990, the population of Kenya was 25, 000, 000, this grew to 45 000 000 in 2014.
 - 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 1990 (2 marks)
 - c) Estimate the population in 2050 (3 marks)
2. Give three benefits of conducting census in health and development.(3 marks)
3. Define the following terms
 - (a) Crude death rate (1 mark)
 - (b) Sex ratio(1 mark)
 - (c) Rate of natural increase (1 mark)
 - (d) Dependency ratio(1 mark)
 - (e) Life expectancy(1 mark)
4. State the demography balancing equation and describe its components (3 marks)
5. List types of population pyramid (3 marks)
6. Describe 3 methods of birth control (3 marks)
7. List two methods for measuring Fertility and Mortality in Kenya (2 marks)
8. Explain the following term as used in demographic data collection:
 - i. De facto method (1 mark)
 - ii. De jure method (1 mark)
9. State two characteristics of a population(2 marks)

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

1. Discuss what has driven the decline of infant mortality rate in Kenya (15 marks)
2. Discuss the impact of population growth on public health and environment in relation to the spread and causes of diseases (15 marks)
3. A survey was conducted in Kisumu City on September 2018. It revealed a total population of 389,000 (196,500 males and 192,500 females). Total number of children born alive during the year was 16,400. The survey has also recorded a total of 5835 deaths (3200 males and 2635 females) during the same year. The survey has also identified the following deaths among the population.
 - Children < 1 month = 370
 - Children 1 month - 11 months =1100
 - Children 0 year – 4 years = 1865
 - Death of mothers during pregnancy and child birth =130

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

- a) Crude Birth Rate (2 marks)
- b) Crude Death Rate (2 marks)
- c) Infant Mortality Rate (2 marks)

- d) Under 5 Mortality Rate (3 marks)
- e) Neonatal Morality Rate (3 marks)
- f) Maternal Mortality Rate(3 marks)

4. Discuss the impacts of migration in health and development (15 marks)