



**JARAMOGI OGINGA ODINGA UNIVERSITY OF SCIENCE AND TECHNOLOGY**  
**SCHOOL OF HEALTH SCIENCES**  
**UNIVERSITY EXAMINATION FOR DIPLOMA IN COMMUNITY HEALTH AND**  
**DEVELOPMENT**  
**2<sup>ND</sup> YEAR 2<sup>ND</sup> SEMESTER 2023/2024 ACADEMIC YEAR**  
**MAIN**

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**COURSE CODE: HDC 2222**

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

**EXAM VENUE: STREAM: (Dip. Comm Hlth & Dev)**

**DATE: EXAM SESSION:**

**TIME: 1.30 HOURS**

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**Instructions:**

- 1. Answer all the questions in Section A and ANY other TWO 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 QUESTIONS (30 MARKS)**

1. Explain THREE roles of demography in Public Health citing examples (3 marks)
2. Briefly explain TWO enumeration methods used during census (3 marks)
3. Differentiate between achieved and acquired demographic characteristics and give an example of each (3 marks)
4. Explain briefly the population growth concepts (3 marks)
5. Briefly explain the THREE components of population dynamics (3 marks)
6. Briefly discuss THREE consequences of rapid population growth on health(3 marks)
7. Explain briefly THREE proximate determinants of fertility (3 marks)
8. What is the meaning of “general fertility rate” and why is it considered to be more refined measure than crude birth rate (3 marks)
9. Briefly discuss THREE consequences of migration of public health importance (3 marks)
10. Discuss THREE common types of rates in demography and health (3 marks)

**SECTION B: ANSWER TWO QUESTIONS (30 MARKS)**

- 1a) Define Total Fertility rate. (1 mark)
- b) Using the data below compute the TFR (14 marks)

Table: Reported number of births in the last 12 months by women in a survey in a certain population

AGE OF WOMEN	NUMBER OF WOMEN	BIRTHS IN THE LAST 12 MONTHS
15-19	314056	6921
20-24	269340	13983
25-29	236187	13136
30-34	203477	8420
35-39	176534	5684
40-44	145037	1318
45-49	122949	257

2. Discuss the demographic transition theory of population, describing how the natural increase in population changes through the different stages of the model and the likely causes of these changes (15 marks)
3. Use the data given below to construct a population pyramid. (10 marks)

Column 1	Column 2	Column 3	Column 4	Column 5
			%	%
Age	Males	Females	Males	Females
0-4	96052	96409		
5-9	96807	94659		
10-14	78864	72404		
15-19	67713	60663		
20-24	47232	53767		
25-29	37303	45356		
30-34	29672	36543		
35-39	23290	28186		
40-44	19551	24877		
45-49	19635	23568		
50-54	17193	21199		
55-59	11535	14217		
60-64	11440	15465		
65-69	8524	10727		
70-74	7861	9261		
75-79	4772	5604		
80-84	4187	5228		
85+	5309	6770		
Total population: 1,211,844				
Source: Population size for Volta Region, 1984				

- b. Which type of population pyramids have you drawn (1 mark)
- c. Comment on the characteristics of the population (4 marks)
4. Vital statistics are important to researchers, epidemiologist, health planners, and other health professionals. Discuss. (15 marks)

