JARAMOGI OGINGA ODINGA UNIVERSITY OF SCIENCE AND TECHNOLOGY

SCHOOL OF HEALTH SCIENCES

UNIVERSITY EXAMINATION FOR THE DEGREE OF BACHELOR OF SCIENCE IN

COMMUNITY DEVELOPMENT AND PUBLIC HEALTH

4th YEAR 1st SEMESTER 2020/2021 ACADEMIC YEAR

COURSE CODE: HCB 3323

COURSE TITLE: DEMOGRAPHY AND HEALTH

EXAM VENUE: STREAM: (BSc. CD & PH)

DATE:1/12/20 EXAM SESSION: 3-6 PM

TIME: 3 HRS

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Instructions:

1. **Answer all the questions in Section A and ANY other 2 questions in Section B.**

   1. Candidates are advised to write on the text editor provided, or to write on a foolscap, scan and upload alongside the question.

   2. Candidates must ensure that they submit their work by clicking 'FINISH AND SUBMIT ATTEMPT' button at the end.

SECTION A: Answer ALL questions in this section (30 marks)

1. What are the vital statistics in population dynamics?

(3 marks)

2.   Explain the optimum population theory with an illustration.

(3marks)

4.Determine age-specific death rate if there are 1200 death among people aged 40-40 and their total population is 240,000.

(3 marks)

4.Explain the following dynamics of a population

a)   Mortality rate
b)   Fertility rate
c)   Migration rate

(6 marks)

5. What are the TWO methods of estimating a population?

(4 marks)

6. What is the difference between epidemiology and demography transition theory?

(3 marks)

7. Explain how you would calculate the dependency ratio in a population

(4 marks)

8. What is a geometic mean and what are its advateges in estimating the population size?

(4 marks)

SECTION B: Answer any 2 Questions in this section (40 marks each)

1. With specific example, explain how a theory can help to explain the population growth of a country?

(20 marks)

2. Explain how demography information is important for health care service delivery in a country?

(20 marks)

3. With the use of pyramid, explain the composition of a population and possible health implications.

(20 marks)

4. Explain how the universal health care affects the life expectancy of a population

(20 marks)