



MACHAKOS UNIVERSITY

University Examinations for 2016/2017 Academic Year

SCHOOL OF BUSINESS AND ECONOMICS

DEPARTMENT OF ECONOMICS

FOURTH YEAR FIRST SEMESTER EXAMINATION FOR

BACHELOR OF ECONOMICS AND FINANCE

BACHELOR OF ECONOMICS

EAE 410: DEMOGRAPHIC ECONOMICS

DATE: 2/8/2017

TIME: 8:30 – 10:30 AM

INSTRUCTIONS

Answer Question **ONE** and any other **TWO** questions. Question one carries **30 Marks**, and the rest carry **20 Marks** each.

QUESTION ONE (COMPULSORY) (20 MARKS)

- a) There are two towns, A and B with the following data on population and age specific death rates.

Age group (years)	Town A		Town B	
	Population	Death rate	Population	Death rate
0-5	100,000	300	110,000	250
6-15	200,000	250	240,000	240
16-50	600,000	200	400,000	300
Above 50	300,000	150	350,000	200

Using the above information, calculate the standardized death rates in both towns and explain your results. (5 marks)

- b) Write short notes on the following
- i) Crude rate and Specific rates (4 marks)
 - ii) Abridged life tables and Complete life tables (4 marks)
 - iii) Sample surveys and Vital statistics (4 marks)
- c) Clearly distinguish between de-facto and de-jure methods of census and state the merits and demerits of each (8 marks)
- d) Discuss Dumont's theory of social capillarity and its implications on developing countries (5 marks)

QUESTION TWO (20 MARKS)

- a) Assuming the population in Kenya in 1999 was 30,149,000 and 38,600,000 in 2009,
- Using the discrete method, derive the annual population growth rate 'r' using logs and calculate its exact figure between the two census periods. (8 marks)
 - Using the growth rate obtained above, and the standardised formula for 'r' calculate how long it will take for the population in 1999 to double itself (7 marks)
- b) What are the uses of post-enumeration survey? Explain. (5 marks)

QUESTION THREE (20 marks)

- a) Discuss the advantages and disadvantages of Cohort approach in the analysis of fertility (10 marks)
- b) In Kenya, it has been observed that many educated professionals are opting to migrate abroad. Briefly explain five causes of such a situation and suggest atleast five measures to curb it. (10 marks)

QUESTION FOUR (20 MARKS)

- a) i) Describe the three main sources of demographic information and comment on their utility in tropical Africa (10 marks)
- ii) Briefly explain any five problems encountered while conducting a census (5 marks)
- b) State five assumptions of the Optimum Theory of population (5 marks)

QUESTION FIVE (20 MARKS)

- a) Discuss the different methods of projecting population in a country, and state their limitations (12 marks)
- b) Briefly explain the effects of population growth on economic development of underdeveloped countries (8 marks)