



MACHAKOS UNIVERSITY

University Examinations for 2018/2019 Academic Year

SCHOOL OF ENVIRONMENT AND NATURAL RESOURCES MANAGEMENT

DEPARTMENT OF ENVIRONMENTAL SCIENCES

**SECOND YEAR SPECIAL/SUPPLEMENTARY EXAMINATION FOR
BACHELOR OF ENVIRONMENTAL STUDIES (RESOURCE CONSERVATION)**

BACHELOR OF SCIENCE IN ENVIRONMENTAL SCIENCE

ENS 237: HUMAN POPULATION AND ENVIRONMENT

DATE: 26/7/2019

TIME: 2.00-4.00 PM

INSTRUCTIONS:

Answer question ONE and any other TWO questions

QUESTION ONE (COMPULSORY) (30 MARKS)

- a) Indirect methods of data collection are fundamental in demographic data acquisition in the developing world. Justify this statement (5 marks)
- b) As a demographer, describe three human processes that you could apply to study human population dynamics in Machakos County (5 marks)
- c) Using a diagram, discuss the exponential population growth model (10 marks)
- d) Differentiate between three types of population survivorship curves (10 marks)

QUESTION TWO (20 MARKS)

Discuss the effect of meat production on the environment (20 marks)

QUESTION THREE (20 MARKS)

Write an essay on five theories that are used to explain human population migration (20 marks)

QUESTION FOUR (20 MARKS)

- a) Discuss the social effects of Youth Bulge Phenomenon in Kenya (10 marks)
- b) Discuss TEN methods that are used to reduce human population growth (10 marks)

QUESTION FIVE (20 MARKS)

Explain why human birth rate is an issue of concern for world governments (20 marks)