



# 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

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## INSTRUCTIONS:

Answer question ONE and any other TWO questions

### QUESTION ONE (COMPULSORY) (30 MARKS)

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

- Discuss the social effects of Youth Bulge Phenomenon in Kenya (10 marks)
- 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)