



MACHAKOS UNIVERSITY

University Examinations for 2019/2020 Academic Year

SCHOOL OF ENVIRONMENT AND NATURAL RESOURCES MANAGEMENT

DEPARTMENT OF ENVIRONMENTAL SCIENCES

SECOND YEAR SECOND SEMESTER EXAMINATION FOR

BACHELOR OF ENVIRONMENTAL STUDIES (RESOURCE MANAGEMENT)

BACHELOR OF ENVIRONMENTAL SCIENCE

ENS 237: HUMAN POPULATION AND ENVIRONMENT

DATE: 25/11/2020

TIME: 8.30-10.30 AM

INSTRUCTIONS;

Answer question ONE and any other TWO questions

QUESTION ONE (COMPULSORY) (30 MARKS)

- a) As a demographer, explain five elements of human population composition that you could apply to study human population dynamics in Machakos County. (10 marks)
- b) Describe the methods that are used to reduce human population growth. (10 marks)
- c) Using illustrations, discuss the different types of population survivorship curves. (10 marks)

QUESTION TWO (20 MARKS)

Explain the environmental effects of increased agricultural production to meet the needs of expanding human population.

QUESTION THREE (20 MARKS)

Explain five theories that are used to explain human population migration.

QUESTION FOUR (20 MARKS)

- a) Discuss the different types of human population pyramids. (10 marks)
- b) Using a diagram, discuss the exponential population growth model. (10 marks)

QUESTION FIVE (20 MARKS)

Explain why high human birth rate is an issue of concern for the Kenyan Government