



MACHAKOS UNIVERSITY COLLEGE

(A Constituent College of Kenyatta University)
University Examinations for 2015/2016 Academic Year

SCHOOL OF AGRICULTURE & NATURAL RESOURCES

DEPARTMENT OF AGRICULTURE

FIRST SEMESTER EXAMINATION FOR BACHELOR OF SCIENCE IN
ENVIRONMENTAL STUDIES (COMMUNITY DEVELOPMENT)

ECD 105: POPULATION DYNAMICS AND RESOURCE USE

Date: 2/12/2015

Time: 8:30 – 10:30 AM

INSTRUCTIONS:

Answer Question One and Any Other Two Questions

1. (a) Define the following terms as applied in population and development studies
 - i. Demography (2 marks)
 - ii. Biotic resources (2 marks)
 - iii. Age Specific Fertility Rate (2 marks)
 - iv. Immigration (2 marks)
- (b) Israel is geographically a small country with an upward-trend population growth rate: explain any four challenges that the high population growth rate presents to this small Jewish nation. (12 marks)
- (c) Discuss five factors that are responsible for population distribution in the United Kingdom (10 marks)
2. (a) Describe two social implications of the “one child policy” as practiced in China since 1980. (10 marks)
- (b) What is Industrial revolution? (2 marks)

- (c) Discuss four factors that cause a decrease in the size of human population (8 marks)
3. (a) Explain the term “natural resources” diagrammatically (10 marks)
- (b) Explain what is meant by the phrase “the tragedy of the commons” as used in the utilization of common resources. (10 marks)
4. (a) Water is life! Explain any five critical issues facing water resource in Kenya (10 marks)
- (b) The human population of Kenya has been on an upward trend since independence. Discuss any five adverse effects of an increased population on the utilization of forest resource in Kenya (10 marks)
5. (a) Define the term Demographic Transition Model (5 marks)
- (b) Using appropriate diagrams, describe demographic transition as it happens when a country moves from under-developed to developed status (15 marks)