

MACHAKOS UNIVERSITY

University Examinations for 2016/2017

SCHOOL OF AGRICULTURE AND NATURAL RESOURCES MANAGEMENT

DEPARTMENT OF ENVIRONMENTAL SCIENCES

FIRST YEAR FIRST SEMESTER EXAMINATION FOR BACHELOR OF SCIENCE IN ENVIRONMENTAL STUDIES AND COMMUNITY DEVELOPMENT

ECD 105: POPULATION DYNAMICS AND RESOURCE USE

Date: 8/12/2016 Time: 11:00 – 1:00 PM

INSTRUCTIONS:

Answer Question ONE and TWO Other Questions

a) Define the following terms related to human population.

QUESTION ONE

u) 201110 till 10110 till 201110 to till till population.			
	i)	Carrying capacity	(2 marks)
	ii)	Population structure.	(2 marks)
	iii)	Growth rate	(2 marks)
	iv)	Population density	(2 marks)
	v)	Fertility rate	(2 marks)
b)	Explain five reasons why the study of human population is crucial in environmental management. (10 marks)		
c)	Explain five determinants of population change.		(10 marks)

QUESTION TWO (20 MARKS)

- a) Compare and contrast Malthus' and Boserup's theories of population growth (10 marks)
- b) Discuss the following paradigms of resource use.
 - i) Resource management (5 marks)
 - ii) Frontier economics. (5 marks)

QUESTION THREE (20 MARKS)

a) Discuss the trend of population growth in Africa. (10 marks)
b) Explain the environmental implications of population structure. (10 marks)

QUESTION FOUR (20 MARKS)

Discuss the potential impacts of population growth of the following resources.

a) Land (10 marks) b) Water (10 marks)

QUESTION FIVE (20 MARKS)

a) Discuss the linkages between population and climate change. (10 marks)

b) Explain five benefits of population census to a country's growth. (10 marks)