

# **MACHAKOS UNIVERSITY**

University Examinations for 2018/2019 Academic Year

#### SCHOOL OF ENVIRONMENT AND NATURAL RESOURCES MANAGEMENT

## DEPARTMENT OF ENVIRONMENTAL SCIENCES

#### FIRST YEAR SPECIAL/SUPPLEMENTARY EXAMINATION FOR

## **BACHELOR IN ENVIRONMENTAL SCIENCE**

#### ECD 105: POPULATION DYNAMICS AND RESOURCE USE 2019 TIME: 11.00-1.00 PM

#### DATE: 26/7/2019

#### **INSTRUCTIONS;**

# Answer question ONE and any other TWO questions

#### **QUESTION ONE**

a)	Defin	Define the following terms related to human population.				
	i.	Life expectancy	(2 marks)			
	ii.	Mortality rate	(2 marks)			
	iii.	Population growth rate	(2 marks)			
	iv.	Population density	(2 marks)			
	v.	Fecundity	(2 marks)			
b)	Discu	n environmental				
	mana	(10 marks)				
c)	Expla	(10 marks)				

#### **QUESTION TWO**

a) Discuss the importance of human population census in environmental management

(10 marks)

b) Explain five policy options that can be applied in Kenya to enhance sustainable use of natural resources (10 marks)

# **QUESTION THREE**

Discuss the potential impacts of population dynamics on the following.

a)	Food security	(10 marks)
b)	Forests	(10 marks)

# **QUESTION FOUR**

a)	Compare and contrast Malthus' and Boserup's theories of population growth				
b)	Discuss the following paradigms of resource use.				
	i.	Deep ecology	(5 marks)		
	ii.	Environmental protection.	(5 marks)		
QUES	<b>STION FIV</b>	<b>/E</b>			
a)	Discuss the trend of population growth in Africa				
b)	Explain the environmental implications of population distribution (10 mark				