



KENYATTA UNIVERSITY

UNIVERSITY EXAMINATIONS 2007/2008

SECOND SEMESTER EXAMINATION FOR THE DEGREE BACHELOR OF
ENVIRONMENTAL PLANNING AND MANAGEMENT
EPM 141: POPULATION DYNAMICS IN ENVIRONMENTAL PLANNING
AND MANAGEMENT

DATE: Monday 23rd June, 2008

TIME: 8.00 – 10.00 a.m.

INSTRUCTIONS

- Answer question ONE and any other TWO questions.
 - Start all questions on a fresh page.
 - Use examples where appropriate.
1. (a) What do you understand by the following population management concepts:
- (i) Population dynamics
 - (ii) Defacto enumeration
 - (iii) Infant Mortality Rate (IMR)
 - (iv) Population sample survey
 - (v) Life expectancy at birth (10 marks)
- (b) Briefly explain the contributions made by Thomas Malthus to the field of population studies. (10 marks)
- (c) The following demographic data was retrieved from Kisumu district statistical office.

Year	1997	2007
Total population	255140	385430
Number of HIV/aids victims	2020	5150
Number of school going children	10220	40175
Males	126000	192500

Calculate:

- (i) The population growth rate
 - (ii) The rate of spread of HIV/aids
 - (iii) The sex ratio for 1997 and 2007
 - (iv) The doubling time for the population. (10 marks)
2. (a) Why is vital registration critical in the management of a country's population. (10 marks)
- (b) Briefly discuss the challenges facing vital registration in Kenya. (10 marks)
3. (a) Briefly explain the data related objectives of the 1999 population and housing census. (10 marks)
- (b) Explain why a national population census cannot be entirely accurate. (10 marks)
4. (a) Briefly discuss the environmental challenges posed by overpopulation in an area. (10 marks)
- (b) Suggest how to mitigate the environmental challenges cited in 4. (a) above. (10 marks)
5. (a) Explain five principle forces in the 21st century that can lead to falling fertility levels. (10 marks)
- (b) Based on the recommendations of the International Conference on Population and Development (CAIRO 1994), briefly outline how Kenya can respond to the problem of ageing. (10 marks)