

**NATIONAL UNIVERSITY OF SCIENCE AND TECHNOLOGY**

**FACULTY OF APPLIED SCIENCES  
DEPARTMENT OF FOREST RESOURCES AND WILDLIFE MANAGEMENT  
BACHELOR OF SCIENCE HONOURS DEGREE  
MAIN EXAMINATION**

**HUMANS AND THE ENVIRONMENT EFW: 1101**

**January 2013**

**Time Allowed: 3 Hours**

**Total Marks: 100**

**INSTRUCTIONS TO CANDIDATES:**

Answer **QUESTION ONE** and any **THREE** others. Each question carries **25 marks**.

1. Give an illustration of how a named stress or disruption within the natural environment can impact a given carrying capacity.
2. The extraction of economic minerals, fossil fuels, water from underground aquifers, sand and gravels for construction all are environmentally costly. Discuss.
3. Describe the demographic transition model and distinguish between the past and present demographic transitions.
4. The loss of biological diversity is strongly correlated to habitat decline. With references to particular types of habitat, discuss how human activities contribute to this decline.
5. Chi and Mandi Co. propose an irrigation project for the Nyashanu communal land. Comment on the sustainability of such a developmental project on the environment.
6. (a) Explain what is meant by the term 'desertification'. **[5 marks]**  
(b) Discuss the anthropogenic factors contributing to this process. **[10 marks]**  
(c) What are the prospects of slowing down the global rate of desertification in the future? **[10 marks]**

**\*\*\* END OF PAPER \*\*\***

