



KENYATTA UNIVERSITY

UNIVERSITY EXAMINATIONS 2007/2008

SECOND SEMESTER EXAMINATION FOR THE DEGREE OF BACHELOR
OF ENVIRONMENTAL STUDIES (COMMUNITY DEVELOPMENT)

ECD 310: FOOD PRODUCTION SYSTEMS AND ENVIRONMENT

DATE: Monday 16th June, 2008

TIME: 2.00 p.m. – 4.00 p.m.

INSTRUCTIONS

Answer a total of three questions. Questions 1 and 5 are compulsory.

1. (a) Using an innovative function, explain the relevance of the components of “Food Security” as a concept based on sustainability thinking.
[10 marks]
(b) Briefly discuss critical causes of food insecurity at the community levels in Kenya. [20 marks]
2. Explain the contribution of food production systems to global climate change and the potential mitigation measures. [20 marks]
3. (a) Explain how a typical agricultural system fits into the systems concept and hence integrated environmental management. [10 marks]
(b) Explain the differences and relationship between land degradation and desertification. [10 marks]
4. Explain the significance of strategies and approaches that could be used to save agricultural water in Kenya’s rural agro-ecosystems. [20 marks]
5. Using plausible argument state your case on the assertion that: agriculture and Environment are friends and not necessarily enemies. [20 marks]

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