

CHUKA



UNIVERSITY

UNIVERSITY EXAMINATIONS

EXAMINATION FOR THE AWARD OF DEGREE OF MASTER OF SCIENCE IN ENVIRONMENTAL SCIENCE

ENSC 812: GLOBAL ENVIRONMENTAL CHANGE

STREAMS: MSC ENSC Y1S1

TIME: 3 HOURS

DAY/DATE: MONDAY 16/12/2024

8.30 A.M – 11.30 A.M.

INSTRUCTIONS:

- **Attempt question one and any other two questions.**
 - **Do not write anything on the question paper.**
1. Discuss the role of Geographic Information Systems (GIS) in environmental hazard management, providing examples of how GIS has been applied in recent disaster scenarios. (20 marks)
 2. Describe the process of life cycle assessment (LCA) and its importance in sustainable waste management practices. How can LCA help in reducing environmental hazards? (20 marks)
 3. Critically discuss the role of green technologies and innovations in managing environmental hazards. (20 marks)
 4. a) Analyze the environmental and health impacts of the Dandora Waste Dump in Nairobi. (10 marks)
b) Discuss the challenges faced by developing countries in managing such open waste dumps. (10 marks)
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