



MAASAI MARA UNIVERSITY

**REGULAR UNIVERSITY EXAMINATIONS
2017/2018 ACADEMIC YEAR
FOURTH YEAR SECOND SEMESTER**

**SCHOOL OF TOURISM AND NATURAL RESOURCES
MANAGEMENT
BACHELOR OF ENVIRONMENTAL BIOLOGY AND
HEALTH**

**COURSE CODE: EPM 410
COURSE TITLE: ENVIRONMENTAL STANDARDS AND
ENFORCEMENT**

DATE: 20TH APRIL, 2018

TIME: 0830 – 1030HRS

INSTRUCTIONS TO CANDIDATES

- Answer question ONE and any Other TWO questions
- Use illustrations where appropriate

SECTION A: ANSWER ALL QUESTIONS

- Q1. The Kenya Bureau of Standards (KEBS) and the National Environmental Management Authority (NEMA) are two key enforcement agencies that are required by law to use International and National Standards in assessing levels of compliance among the existing companies regarding environmental management activities. In view of this:
- (a) Explain what you understand by the term "Standard" [3 marks]
 - (b) Discuss the fundamental requirements of Environmental Management System (EMS) which you may recommend to an organization that requires the specifications of ISO 14001 [6marks]
 - (c) State the benefits that an organization may realize as a result of being ISO 14001 compliant [6 marks]
- Q2. What is the PDCA cycle of continuous improvement [4 marks]
- Q3. What do you understand by environmental management system? [2 marks] Q4. Write short notes on:
- a) Consumption & pollution audit. [3marks]
 - b) Matrices method of impact assessment. [3 marks]

SECTION B: ANSWER ANY THREE QUESTIONS

- Q5. (a) Explain the key requirements to consider before undertaking an Environmental Audit [6marks]
- (b) Briefly discuss the need for and steps required in conducting an Environmental Audit for a milk processing plant in Kiambu County [6 marks]
- (c) Using a specific example, explain the importance of various regulations in ensuring sustainable environmental management in Kenya [3 marks]
- Q6. (a) With reference to Wetland Ecosystems, explain what you understand by "Total Economic Value" (TEV) of Environmental Resources [6 marks]
- (b) Using suitable illustrations, discuss how Cost-Benefit Analysis could be used as a tool for environmental diagnosis and public sector investment appraisal. [6 marks]
- (c) Briefly discuss the application of any one technique used in Environmental Valuation [3 marks]
- Q7
- a) Describe the impact of sugar industry on ecology as well as socio-environmental aspects. [6 marks]
 - b) Which are the treatment & disposal options considered, in an Environmental audit? [5 marks]
 - c) Explain the significance of audit and describe methodology for an environmental audit. [4 marks]

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