

**NATIONAL UNIVERSITY OF SCIENCE AND TECHNOLOGY
FACULTY OF APPLIED SCIENCES
DEPARTMENT OF ENVIRONMENTAL SCIENCE AND HEALTH
BACHELOR OF ENVIRONMENTAL SCIENCE HONOURS DEGREE
PUBLIC HEALTH
FINAL EXAMINATION**

ENVIRONMENTAL MANAGEMENT SYSTEMS AND TOOLS: EPH 1009

November 2011

Time Allowed: 3 hours

Total marks:100

INSTRUCTIONS:

Answer any **four** questions. Each question carries **25 marks**

Question 1

Develop a detailed documented procedure for an Environmental Management System for a steel making company near the Zambezi River.

Question 2

a) Describe and explain problem areas in implementing Environmental Management Systems. (15 marks)

b) As an Environmental Management consultant, how best can you advise a company facing such problems in trying to get ISO certification. (10 marks)

Question 3

Give a detailed account of cleaner production ways that can be adopted by a food processing industry in its quest to go beyond ISO certification.

Question 4

Assess the effectiveness and importance of the following environmental management tools in protecting the environment.

- i) Life Cycle assessments (8)
- ii) Environmental Accounting (8)
- iii) Environmental Impact Assessments (9)

Question 5

5. As a Safety, Environment, Health and Quality Officer of a prominent mining company in Zimbabwe draft an Environmental Management Plan that you would use to implement goals and aims of Agenda 21 through the phrase “Act locally and think globally” to promote sustainable development.

Question 6

6. Discuss the elements of ISO 14001 Environmental Management System.

(End of question paper)

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SUPPLEMENTARY EXAMINATION**

ENVIRONMENTAL MANAGEMENT SYSTEMS AND TOOLS: EPH 1009

July 2012

Time Allowed: 3 hours

Total marks:100

INSTRUCTIONS:

Answer any **four** questions. Each question carries **25 marks**

Question 1

Discuss the procedure of implementing ISO 14001 for a bricklaying company.

Question 2

You have been contracted by a gold mine to implement an Environmental Management System. Draft an Environmental Management Plan that you would follow until the company is certified with ISO 14001.

Question 3

Assess the effectiveness and milestones of international protocols, conventions and treaties in environmental management.

Question 4

Identify and discuss important factors that should be considered in Environmental Management Systems.

Question 5

“Continual improvement is the cornerstone of a successful EMS” Discuss.

Question 6

Identify and discuss environmental management tools that can be used by steel making company for better environmental performance.

(End of question Paper)