

**NATIONAL UNIVERSITY OF SCIENCE AND TECHNOLOGY**  
FACULTY OF ARCHITECTURE AND QUANTITY SURVEYING

**DEPARTMENT OF ARCHITECTURE**  
BACHELOR OF ARCHITECTURAL STUDIES (HONOURS) DEGREE

PART V SUPPLEMENTARY EXAMINATIONS – AUGUST 2004  
**AAR 5105 – ENVIRONMENTAL IMPACT ASSESSMENT**

**Instructions**

**Time : 3 Hours**

*Answer Question 1 and any three other Questions.*  
*Each Question carries 25 marks.*

**QUESTION 1**

- (a) Explain why landscape design is a complex process that combines the practical with the artful in a unified, functional composition. [25]
- (b) Design analysis consists of both a site analysis and an analysis of people's needs. [10]

**QUESTION 2**

Outline terms of reference for establishment of a 100-bed hotel complex with a conference room and temporary staff living quarters and a large swimming pool on private land near Matobo National gate entrance. [25]

**QUESTION 3**

Discuss the major components of an environmental impact statement. Which are the most necessary? Why? [25]

**QUESTION 4**

A geotechnical consulting firm appoints an architectural firm of consultants to oversee the EIA and design of a cement factory near Kensington suburb on the outskirts of Bulawayo.

- (a) List the EIA stakeholders and the processes of a scoping engagement [10]
- (b) Identify impacts associated with the project [10]
- (c) Outline mitigations for the project [5]

**QUESTION 5**

Use a matrix approach to identify cause-effect relations of project actions against environmental parameters to be investigated for potential impacts in the setting up of a cement project at Kensington in Bulawayo. [25]

**QUESTION 6**

Tongogara Camp near White Cliff suburb in Harare was established without appropriate planning and there is a looming environmental hazard. Identify and explain the environmental hazards and suggest how the settlement of Tongogara Camp could have been handled by the land developers. [25]