

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

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

PART V FIRST SEMESTER EXAMINATIONS – DECEMBER 2002
AAR 5105 ENVIRONMENTAL IMPACT ASSESSMENT

Instructions

Time: 3 hours

Answer all questions

QUESTION 1

Indicate the current legal status of the EIA legislation in Zimbabwe. [10]

QUESTION 2

Explain 'scoping' in the context of EIA as well as the difference between 'scoping' and 'screening'. [10]

QUESTION 3

Give an overview of the principle EIA methods and describe the use of Geographical Information Systems (GIS) in EIA's. [10]

QUESTION 4

Explain the purpose of a prospectus in the context of an EIA. [10]

QUESTION 5

Explain the potential benefits of an EIA for the design process from an architect's point of view. [10]

QUESTION 6

Explain the importance of compiling concise terms of reference (TOR) before an EIA is carried out. [10]

QUESTION 7

An Environmental Impact Assessment report usually includes a number of mitigation measures.
Describe what role a landscape plan can play as a part of the mitigation measures. [10]

Compulsory

QUESTION 8

A major retirement village, comprising 100 units is planned at a site overlooking Ncema Dam, near Esigodini. The proposed site was selected because of its stunning view of the lake area against the backdrop of wooded granite outcrops as well as the fishing opportunities provided by the lake. 50% of the flats are to have a private jetty with a facility to launch a small fishing boat. The water stored in the dam is one of the sources of water supply for the Bulawayo Municipality. There is a Power Boat Club, that has been granted a concession to operate a maximum of 25 small powerboats not exceeding 5HP.

- a) Compile Terms of Reference for an Environmental Impact Assessment, to be carried out by and independent consultant, using the following outline:
- Introduction
 - Project description
 - Objectives
 - Environmental Assessment Requirements
 - Study area
 - Report
 - Consulting team
 - Schedule
 - Other information [25]
- b) Identify and describe at least 5 environmental impacts and assess the impact significance of each of them. [15]
- c) Propose mitigation measures for the three most significant environmental impacts. [10]