

NATIONAL UNIVERSITY OF SCIENCE AND TECHNOLOGY
FACULTY OF THE BUILT ENVIRONMENT

DEPARTMENT OF ARCHITECTURE
BACHELOR OF ARCHITECTURAL STUDIES (HONOURS) DEGREE
PART V – FIRST SEMESTER EXAMINATIONS – DECEMBER 2013
BAR 5105 - ENVIRONMENTAL IMPACT ASSESSMENT

Instructions

Answer question 1 and any three (3) questions.

Duration: 3 Hours

Total Marks: 100

QUESTION 1

The Ministry of Transport is in the process of constructing northern corridor by – pass from Kadoma through Chinhoyi and joining Harare-Kariba Highway under its newly launched strategic plan in order to reduce increasing traffic congestion in the City of Harare. Your firm of experts has won the contract to undertake full Environmental Impact Assessment (EIA) studies on the proposed road project.

As part of the regulatory requirement by the Environmental Management Agency (EMA), an Environmental Impact Assessment (EIA) should be carried out before such a major developmental activity. Describe what could constitute the following:

- | | |
|---|------|
| a. Terms of reference/proposal of the EIA study | (16) |
| b. Environmental Impact Statement (EIS) | (12) |
| c. Components of the EIA report. | (12) |

[40]

QUESTION 2

- | | |
|--|------|
| a. Describe the importance of conducting EIAs for major construction projects. | (10) |
| b. Explain the aims and objectives of EIA | (10) |

[20]

QUESTION 3

Explain the most common formal methods used for impact identification and impact prediction in EIA.

[20]

QUESTION 4

What is screening and why is it important in EIA? (10)

- | | |
|---|------|
| a. Describe the possible roles of the various stakeholders in EIA at the scoping stage. | (10) |
|---|------|

[20]

QUESTION 5

You have been made responsible for reviewing your organisation's waste production and disposal.

- a. Discuss the environmental impacts associated with waste disposal. (10)
- b. Explain how you would go about identifying sources of waste in your organisation. (10)

[20]