

NATIONAL UNIVERSITY OF SCIENCE AND TECHNOLOGY
FACULTY OF THE BUILT ENVIRONMENT

DEPARTMENT OF ARCHITECTURE
BACHELOR OF ARCHITECTURAL STUDIES (HONOURS) DEGREE
PART V – SUPPLEMENTARY EXAMINATIONS – JULY 2014
BAR 5105 - ENVIRONMENTAL IMPACT ASSESSMENT

Instructions

Answer question 1 and any three (3) questions.

Duration: 3 Hours

Total Marks: 100

QUESTION 1

A major new township development with a total area of 900 hectares is expected to boost the economy of Midlands Province. It will involve relocation of 500 families from 3 affected villages. The project will cause 2 major water catchment area for the province to be affected. The project is economically driven; and environmental pressure groups are against the project approval.

Assuming your consultancy firm has won a contract to undertake the Environmental Impact Assessment (EIA) study on this proposed project:

- a. Discuss the logical steps in the EIA process that your study team is likely to follow in order to achieve the task assigned to you. Justify the formation of the interdisciplinary team for this EIA study. (20)
- b. Giving reasons who would you consider to be the Key four Stakeholders to participate in the EIA study process? (8)
- c. What could constitute the Environmental Management Plan (EMP) for this project? (12)

[40]

QUESTION 2

- a. What precautions should be taken at construction sites to minimise exposure to common construction hazardous substances? (10)
- b. Construction sites can be noisy environments. Outline steps that can be taken to reduce noise during the construction phase of a project in the CBD. (10)

[20]

QUESTION 3

List and discuss the merits and demerits of the five main impact identification methods.

[20]

QUESTION 4

- a. What are the limitations of an EIA? (10)
 - b. Discuss the constraints to public participation in EIA for construction projects in rural areas. (10)
- [20]**

QUESTION 5

- a. What is the purpose of reporting in an EIA? (5)
 - b. Discuss the typical elements of an EIA report. (15)
- [20]**