



**NATIONAL UNIVERSITY OF SCIENCE AND TECHNOLOGY**  
**FACULTY OF THE BUILT ENVIRONMENT**  
**DEPARTMENT OF ARCHITECTURE**  
**ENVIRONMENTAL IMPACT ASSESSMENT**  
**AAR 5105**

**Examination Paper**

**May 2016**

This examination paper consists of 3 pages

**Time Allowed: 3 hours**

**Total Marks: 100**

**Special Requirements: None**

**Examiner's Name: Mrs T. Kativhu**

**INSTRUCTIONS**

1. Answer any Four(4) Questions
2. All answers should be accompanied by sketches where appropriate

**MARK ALLOCATION**

<b>QUESTION</b>	<b>MARKS</b>
1.	25
2.	25
3.	25
4.	25
5.	25
6.	25
<b>TOTAL</b>	<b>100</b>

### QUESTION 1

You are intending to develop a named project of your choice in Zimbabwe. Prepare a prospectus that you should submit to the Environmental Management Agency, informing the department that a prescribed activity is being undertaken.

### QUESTION 2

- a. Define screening as it is applied in EIA. (3)
- b. Give a detailed analysis of the different methods used in screening developmental projects in Zimbabwe. (22)

### QUESTION 3

Draft an Environmental Management Plan (EMP) for a double storey building whose site is a wetland.

### QUESTION 4

A private developer wants to put up a Pulp and Paper manufacturing plant. She intends to establish the pulp and paper manufacturing mill in a relatively wet and forested area of Chimanimani district. Apart from the pulp and paper mill the developer will also provide infrastructure and social amenities in the district. In view of socio-economic and bio-physical environmental implications that may result due to the proposal, there has been public debate particularly on the loss of habitat/biodiversity and competition for scarce water resources in the district. Assuming your consultancy team has won a contract to undertake Environmental Impact Assessment (EIA) study on this proposed project as required by the Environmental Management Agency (EMA).

- a. Who would you consider to be the major stakeholders to participate in the EIA study? Give reasons to your answer. (15)
- b. Analyse at least (5) issues that would form the scope of your study. (10)

### **QUESTION 5**

As an EIA consultant who has won a tender to carry out EIA studies for a shopping mall that will be located in the open area between the National University of Science and Technology (NUST) and Khumalo residential area in the city of Bulawayo. Describe the impacts that will be caused by the project and how they can be mitigated to promote sustainable development.

### **QUESTION 6**

Give a detailed account of factors that may affect the effectiveness of EIA as an environmental management tool in the construction industry in Zimbabwe.