



**MASINDE MULIRO UNIVERSITY OF SCIENCE AND  
TECHNOLOGY  
(MMUST)**

**MAIN CAMPUS**

**UNIVERSITY MAIN EXAMINATIONS  
2023/2024 ACADEMIC YEAR**

**FOURTH YEAR FIRST SEMESTER EXAMINATIONS  
FOR THE DEGREE  
OF  
BACHELOR OF TECHNOLOGY IN BUILDING  
CONSTRUCTION**

**COURSE CODE: BTB 441**

**COURSE TITLE: ENVIRONMENTAL IMPACT AUDIT**

**DATE: 5<sup>TH</sup> DECEMBER 2023**

**TIME: 3 P.M – 5 P.M**

**INSTRUCTIONS:**

1. This paper contains **FOUR** questions
2. **Question ONE (1) is Compulsory**
3. **Attempt a total of THREE questions in this booklet.**
4. Marks for each question are indicated in the parenthesis.
5. Examination duration is **2 Hours**

**MMUST observes ZERO tolerance to examination cheating**

**This Paper Consists of 2 Printed Pages. Please Turn Over.**

**Question 1****COMPULSORY****(30 marks)**

- a. Project screening is the second stage of the EIA process. State the objectives of this stage and further outline the probable outcomes. (5 Marks)
- b. Outline any THREE aspects addressed by the ToR at the scoping stage of conducting an EIA (3 Marks)
- c. Define decision-making and further state its outcomes as part of the process of conducting an EIA (5 Marks)
- d. Define monitoring and further discuss any TWO types of monitoring used in EIA (5 Marks)
- e. A group led by Bundi from BTB fourth year class, 2023 carried out an EIA for the on-going Affordable Housing Project in Kakamega town. They also involved public participation as part of the due process.
  - i. Discuss any FIVE barriers to the smooth and effective public participation they could have encountered. (10 Marks)
  - ii. State the main methods which they suggested for conducting environmental audits for the project (2 Marks)

**Question 2****(20 marks)**

- a. Define the following terms as used in Environmental Impact Assessment (6 Marks)
  - i. Environmental assessment
  - ii. Sustainable development
  - iii. Environmental Impact Assessment According to IAIA
- b. Siminyu was tasked to prepare an Environmental Impact Assessment (EIA) report for the MMUST foot bridge project before it was implemented. (5 Marks)
  - i. State any FIVE aims for carrying out the EIA
  - ii. Explain any SIX guiding principles of good practice which Siminyu must have put into consideration when preparing the EIA report. (9 Marks)

**Question 3****(20 marks)**

- a. Discuss the criteria for screening projects followed by investment banks such as the World Bank before funding projects in developing countries (6 Marks)
- b. Discuss the functions of the following institutions in Kenya under EMCA, 1999;
  - i. The National Environment Management Authority (NEMA) (5 Marks)
  - ii. Public Complaints Committee (3 Marks)
- c. Nature, is one of the environmental impacts considered as an impact prediction and decision-making parameter. Discuss (6 Marks)

**Question 4****(20 marks)**

- Arclay and Company, conducted an EIA on the Metal Refinery (EPZ) project located at the coastal region of Kenya.
- i. Discuss THREE steps they followed in the determination of the impact mitigation process (9 Marks)
  - ii. State and briefly explain any THREE methods they must have suggested as compensation for the impacts on both the community and environment (6 Marks)
  - iii. Discuss any TWO types of environmental audits carried out during the auditing exercise of the project. (5 Marks)