



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

**UNIVERSITY EXAMINATIONS
2022/2023
ACADEMIC YEAR**

THIRD YEAR SEMESTER ONE EXAMINATIONS

**FOR THE DEGREE OF
BACHELOR OF TECHNOLOGY IN BUILDING CONSTRUCTION**

COURSE CODE: BTB 441

**COURSE TITLE: ENVIRONMENTAL IMPACT ASSESSMENT
AND AUDIT**

DATE: 6TH DECEMBER 2022

TIME: 3 – 5 P.M

INSTRUCTIONS:

1. This paper consists of **four** questions.
2. Answer Question **1** and **any other two** questions.
3. All marks are indicated on the parenthesis.
4. Provide neat sketches and diagrams where required.

MMUST observes ZERO tolerance to examination cheating

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

d)

QUESTION ONE

- a) Differentiate between environmental assessment and environmental audit (4mks)
- b) Briefly explain any FOUR reasons why EIA is required in construction projects (8mks)
- c) Explain any FOUR reasons why stakeholders are required during the EIA review process (4mks)
- d) Differentiate between Environmental Social Impact Assessment and Strategic Environmental Assessment (4mks)
- e) Briefly discuss the steps of EIA in the transboundary context detailing activities involved at each stage (10mks)

QUESTION TWO

- a) Masinde Muliro University wants to construct a new student's hostel on a proposed land to be acquired from the surrounding community. MMUST has approached you as an environmental expert to carry out an environmental impact assessment and develop an EIA report for the proposed project.
 - i. Outline the process of carrying out the above activity detailing the activities at each stage (10mks)
 - ii. Develop an Environmental Management Plan for the student hostel before, during and after the construction (10mks)

QUESTION THREE

- a) Shell a petroleum distributor with several fuel stations in Kenya is planning to carry out an environmental audit of its operations.
 - i. Discuss any FIVE benefits of the Audit to the company (10mks)
 - ii. Discuss the basic components of an environmental management plan that the company may consider outlining the significance of each component (10mks)

QUESTION FOUR

- a) Discuss the process of establishing an environmental monitoring programme (10mks)
- b) Explain the process of EIA review, outlining the review factors at each stage (10mks)

QUESTION FIVE

- a) Discuss any FOUR stakeholder engagement techniques that may be applied during an EIA review (8mks)
- b) Explain why Social Impact Assessment is mandatory for large scale irrigation projects (3mks)
- c) Discuss the format and content of EIA in the transboundary context report (9mks)