



TECHNICAL UNIVERSITY OF MOMBASA

School of Humanities and Social Sciences
DEPARTMENT OF ENVIRONMENT & HEALTH SCIENCES

UNIVERSITY EXAMINATION FOR THE DEGREE OF:
BACHELOR OF SCIENCE IN ENVIRONMENTAL HEALTH
(BSEH Y4S2/YEAR 1/SEMESTER 1)

AES 4210: RESOURCE ASSESSMENT AND MONITORING TOOLS

END OF SEMESTER EXAMINATION

SERIES: Nov 2024

TIME: 2 HOURS

DATE: Pick Date Nov 2024

Instructions to Candidates

- You should have the following for this examination
- *Answer Booklet, examination pass and student ID*
- This paper consists of **FIVE** questions. Attempt question ONE (Compulsory) and any other TWO questions.
- Mobile phones are NOT allowed in the examination room
- **Do not write on the question paper.**

SECTION A (Answer all the questions)

30 POINTS

- Define the term impact and classify the different types of impacts (5 marks).
- Enumerate five principles from the Rio declaration of 1992 (5 marks).
- Highlight what is meant by significance of an impact (5 Marks).
- Highlight the role of monitoring an Environmental impact assessment Activity (5 marks).
- Outline key focus areas of Mitigation measures in an Environmental Impact Assessment (5 marks).
- Provide a justification for identifying alternatives during impact assessment (5 marks).

SECTION B: ANSWER ANY TWO (40 MARKS).

QUESTION TWO (20 MARKS).

The government is considering building a new international airport in a developing country. The airport is expected to boost tourism and economic growth, but there are concerns about its potential impact on nearby wetlands and endangered bird species. Discuss the relationship between EIA and environmental sustainability in the context of the proposed airport project.

(20 marks).

QUESTION THREE: (20 MARKS)

A large-scale solar energy farm is proposed to be built in a rural area. The project promises to generate clean energy and create jobs, but there are concerns about potential impacts on local wildlife and agricultural practices. As an environmental consultant tasked with conducting the EIA for the solar farm project, outline the possible impact and provide mitigation measures to each of the impact identified (20 marks)

QUESTION FOUR (20 MARKS)

A developer proposes constructing a new high-rise residential complex in a rapidly growing urban area. The project requires demolishing a few older buildings and could potentially impact surrounding historical sites and a nearby green space. An EIA report has been submitted by the developer. As a government official responsible for reviewing EIA reports and issuing development licenses, discuss critical elements the report should have to enable you to make an informed decision (20 marks).

QUESTION FIVE (20 MARKS)

You are tasked with conducting the scoping phase for a proposed mining project in a rural community. Outline the specific steps you would take to effectively scope the project (20 marks).