



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: AUG 2024

TIME: 2 HOURS

DATE: Pick Date Aug 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)

QUESTION ONE

- Define the following terminologies (5 marks).
 - Assessment
 - Impact
 - Sustainability
 - Mitigation
 - Proponent
- Highlight five questions you would ask to quickly to screen a project proposal (5 marks)
- Outline Five key specific objectives of Environmental Impact Assessment (5 marks)
- Provide a highlight the objectives of a scoping exercise (5 marks)
- Explain why it is important to conduct an Impact assessment and mitigation exercise in an EIA process? (5 marks)

- f) Contingency Plan is developed when conducting impact Management. Highlight the components of a contingency plan (5 marks)

SECTION B (Attempt any TWO questions in this section - 40 marks)

QUESTION TWO

The Ministry of energy has recently completed the installation of massive wind farms in an unnamed location in Kenya. You have been recruited as a consultant under the supervision of the Cabinet Secretary. As an environmental consultant involved in the EIA for the wind farm project, develop a comprehensive impact management plan to address the potential environmental impacts (20 marks).

QUESTIONS THREE (20 MARKS)

A local government is proposing the construction of a new highway to alleviate traffic congestion in a rapidly growing town. The highway will cut through a currently undeveloped area with potential ecological significance. You are a member of a local environmental group and are passionate about ensuring the project considers environmental factors. Discuss how can public participation be utilized effectively in the EIA process for the proposed highway project? (20 marks).

QUESTIONS FOUR (20 MARKS)

A mining company is proposing to open a new gold mine in a remote, ecologically sensitive area. The proposed mine site is located near a pristine river system that supports endangered fish species and is a vital source of drinking water for a nearby indigenous community. As an environmental consultant tasked with conducting the EIA for the proposed mine, Enumerate

how to develop a risk assessment framework to evaluate the potential environmental impacts of the project. (20 marks).

QUESTION FIVE (20 MARKS)

As an environmental consultant, you are hired to assist a local government in screening a series of small-scale agricultural projects in a semi-arid region. Discuss the key environmental factors you would consider during the screening process and explain why each factor is important.