



TECHNICAL UNIVERSITY OF

MOMBASA

FACULTY OF APPLIED AND HEALTH SCIENCES
DEPARTMENT OF ENVIRONMENT & HEALTH SCIENCES
UNIVERSITY EXAMINATION FOR:
BACHELOR OF TECHNOLOGY IN RENEWABLE ENERGY & ENVIRONMENTAL
PHYSICS

AES 4206: ENVIRONMENTAL IMPACT ASSESSMENT AND AUDITING

BTRE/21S YEAR 4 SEMESTER 2

END OF SEMESTER EXAMINATION

Series: November 2024

TIME: 2HOURS

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** Question(s). Attempt question ONE (Compulsory) and any other TWO questions.

Do not write on the question paper.

SECTION A (Answer all the Questions)

(30 Marks)

QUESTION ONE

- a. Differentiate between the following terms (4 Marks)
 - i) Environmental Impact Assessment and Strategic Environmental Assessment
 - ii) Compliance and System Audit
- b. Outline THREE (3) importance of undertake screening during Health Impact Assessment (3 Marks)
- c. Explain when you are supposed to undertake the following (6 Mark)
 - i) Environmental Impact Assessment (EIA)
 - ii) Environmental Audit (EA)

- d. You have been engaged by Konza City to carry out Strategic Environmental Assessment (SEA) for the proposed City:
 - i) State TWO (2) documents you will request the client to provide (2 Marks)
 - ii) Enumerate THREE (3) Objectives SEA (3 Marks)
 - iii) Outline THREE (3) Methods you will use for public consultations (3 Marks)
- e. Highlight FIVE (5) ways you can use to make EIA recommendation Enforceable (5 Marks)
- f. List five (6) Reference documents in the EIA process (6 Marks)

SECTION B: (Answer only TWO Questions) (40 Marks)

QUESTION TWO

You have been consulted by TUM to carry out environmental audit of the medical block. explain the activates you will undertake during the on-site phase of the audit process. (20 Marks)

QUESTION THREE

You have engaged by the county government of Mombasa to carry out an Environmental Impact Assessment (EIA) for the proposed new dumping site. Briefly explain The TEN (10) Principles which will guild you in carrying out the assignment successfully. (20 Marks)

QUESTION FOUR

You have been engaged to carry out EIA for a proposed Six-line Road from Mombasa to Nairobi

- i) Outline five (5) negative impacts expected during operation phase (5 marks)
- ii) For each impact in (i) above, give FIVE (5) Mitigation measures (15 marks)

QUESTION FIVE

Using a flow chart, describe the process of EIA (20 marks)