



MACHAKOS UNIVERSITY

University Examinations for 2023/2024 Academic Year

SCHOOL OF AGRICULTURE, ENVIRONMENT AND HEALTH SCIENCES

DEPARTMENT OF ENVIRONMENTAL SCIENCES

THIRD YEAR FIRST SEMESTER EXAMINATION FOR

BACHELOR OF ENVIRONMENTAL STUDIES (COMMUNITY DEVELOPMENT)

BACHELOR OF SCIENCE IN COMMUNITY RESOURCE MANAGEMENT

BACHELOR OF SCIENCE IN ENVIRONMENTAL SCIENCE

ESU 300: ENVIRONMENTAL IMPACT ASSESSMENT AND AUDIT

DATE:

TIME:

Instructions: Answer question ONE and any other TWO questions

QUESTION ONE

A proposed Mega City and associated infrastructure is to be designed and developed in a rural suburb largely dependent on subsistence agriculture and pastoralism. This project has the potential to impact negatively on the environment. Discuss the following;

- a) The negative environmental and social impacts likely to be associated with this proposal. (8 Marks)
- b) The measures for mitigating the identified impacts in this proposal (8 Marks)
- c) The strategies for promoting effective public involvement for this proposal. (7 Marks)
- d) The application procedure that needs to be followed in Kenya in order to obtain authorization to commence this proposed activity. (7 Marks)

QUESTION TWO

While the details and relative importance of components of Environmental Impact Assessment (EIA) procedures differ among countries and organizations, there exist a common tenets in its goals and structure.

- a) Explain the purpose and objectives of EIA (10 Marks)
- b) Explain the key guiding principles for EIA good practice (10 Marks)

QUESTION THREE

“Even though it does not have the same legal or mandatory status of EIA, it is widely accepted that Strategic Environmental Assessment (SEA) is more likely to promote sustainable development than project level EIA”. Critically discuss this statement. (20 Marks)

QUESTION FOUR

Discuss the quality control mechanisms which are applied to ensure compliance with EIA implementation after decision making are satisfactory in the EIA process. (20 Marks)

QUESTION FIVE

Using examples, discuss the weaknesses of EIA in Kenya. (20 Marks)