



Technical University of Mombasa

Faculty of Applied and Health Sciences

DEPARTMENT OF ENVIRONMENT AND HEALTH SCIENCES

DIPLOMA IN ENVIRONMENTAL HEALTH
(DEH 12J)

AES 2205 : EIA & EA

SUPPLEMENTARY/SPECIAL : EXAMINATIONS

SERIES: MARCH 2014

TIME: 2 HOURS

INSTRUCTIONS:

You should have the following for this paper

- *Answer booklet*

This paper consists of **FIVE** questions.

Answer Question **ONE (compulsory)** and any other **TWO** questions

This paper consists of 3 PRINTED pages

QUESTION ONE

The Kenya department of Roads is in the process of constructing northern corridor by-pass from Ruai through Ruiru and joining Nairobi-Nakuru Highway under its strategic plan in order to reduce increasing traffic congestion in the City of Nairobi. In view of this and assuming your firm of experts has won the contract to undertake full Environmental impact Assessment (EIA) studies on the proposed road project.

- a) Identify four factors that you are likely to consider when appointing the EIA team during the preparation phase. **(4 marks)**
- b) At what stage(s) of the EIA process would you involve the general public? Give reasons for your answer. **(4 marks)**
- c) State five principles which should form the basis of your EIA study. **(5 marks)**
- d) Identity six possible negative environmental impacts for this project. **(3 marks)**
- e) Propose four occupational health and safety (OHS) measures that should be put in place to address the likely impacts. **(4 marks)**
- f) Explain how the EIA process fits in the concept of sustainable development. **(5 marks)**
- g) What would be the content of your environmental impact assessment study report?**(5 marks)**

QUESTION TWO

- a) Outline the principles on which mitigation should be based within the EIA process. **(5 marks)**
- b) Discuss the role of public participation in an EIA process. **(10 marks)**

QUESTION THREE

Using relevant examples, discuss the alternatives available to reduce the potential impacts, that are likely to arise from development projects. **(15 marks)**

QUESTION FOUR

Discuss the key criteria that should be considered when assessing the significance of an environmental impact. **(15 marks)**

QUESTION FIVE

Discuss the role of and general approach to strategic Environmental Assessment (SEA). **(15 marks)**