



Technical University of Mombasa

Faculty of Engineering and Technology

DEPARTMENT OF **ELECTRICAL AND ELECTRONIC ENGINEERING**

DIPLOMA IN ELECTRICAL & ELECTRONICS ENGINEERING (DEEE 2)

AES 2112 : ENVIRONMENTAL STUDIES

SEMESTER: END OF SEMESTER EXAMINATIONS

SERIES: DECEMBER, 2013

TIME: 2 HOURS

INSTRUCTIONS TO CANDIDATES:

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 **TWO PRINTED** pages*

(Compulsory – Answer ALL Questions)

Question ONE

- (a) Define the following terminologies:
- (i) Environment **(2 marks)**
 - (ii) Sustainable Development **(2 marks)**
- (b) Classify pollutants according to type and source. **(5 marks)**
- (c) Briefly describe nutrient pollution in water bodies. **(4 marks)**
- (d) Explain **FIVE** sustainable ways of managing solid waste. **(5 marks)**
- (e) Using relevant examples distinguish between renewable and non-renewable natural resources. **(4 marks)**
- (f) Describe the process of formation of acid rain. **(4 marks)**

(Answer Any Other TWO Questions)

Question TWO

Describe the process of carrying out an Environmental Impact Assessment (EIA). **(15 marks)**

Question THREE

- (a) Describe major sources of water pollution. **(7 marks)**
- (b) Discuss control & prevention of water pollution. **(8 marks)**

Question FOUR

Describe various controls in the industrial and energy sector that can be applied to combat climate change. **(15 marks)**

Question FIVE

Discuss the importance of ISO 14001 certification as a means of environmental management.

(15 marks)