

TECHNICAL UNIVERSITY OF MOMBASA

FACULTY OF APPLIED AND HEALTH SCIENCES

DEPARTMENT OF ENVIRONMENT & HEALTH SCIENCES

**UNIVERSITY EXAMINATION FOR THE DIPLOMA IN
ENVIRONMENTAL HEALTH SCIENCES.**

DEHS 14M/YEAR3/ SEMESTER2

AES 2109: ENVIRONMENTAL POLLUTION AND CONTROL

SEMESTER EXAMINATION

SERIES: APRIL/MAY 2016

TIME: 2 HOURS

Instructions to Candidates

This paper consists of **FIVE(5)** questions

Answer question ONE (COMPULSORY) and any other TWO questions.

This paper consists of two printed pages.

Question 1. (30 Marks)

- a) What do you understand by the term “greenhouse effect”? (5 Marks)
- b) Define the following terms: (1 Mark each)
 - i. Pollution
 - ii. Pollutant
 - iii. Wet deposition
 - iv. Dry deposition
 - v. Pollution control
- c) Name any four environmental problems faced by today's world. (4 Marks)
- d) Give any three health consequences of air pollution? (3 Marks)
- e) Why is ozone layer important? (2 Marks)
- f) Define conservation of environment. (2 Marks)
- g) What are the two components of the environment? (2 Marks)
- h) Differentiate between Biodegradable Pollutants and Non- Biodegradable Pollutants. (4 Marks)
- i) How does municipal waste contribute to air pollution? (3 Marks)

Question 2. (15 Marks)

- i. What are Volatile organic compounds (VOCs)? (3 Marks)
- ii. List ways of minimizing VOCs emissions. (12 Marks)

Question 3. (15 Marks)

- i. What is Smog? (3 Marks)
- ii. What are the ways of fighting the forceful impact of smog? (3 Marks)
- iii. What are the effects of Smog? (9 Marks)

Question 4. (15 Marks)

What risks do the breakdown products of HFCs and HCFCs present to humans and the environment?

Question 5. (15 Marks)

- i. List the three general characteristics of environmental pollutants as identified by Miguel A. Santos. (3 Marks)
- ii. Define Environmental Pollution, its sources and effects. (12 marks)