

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) Define the following terms: (1 Mark each)
 - i. Pollution
 - ii. Smog
 - iii. Pollutant
 - iv. Photochemical smog
 - v. Volatile Organic Compounds(VOC)
 - vi. Pollution control
- b) Differentiate between WET DEPOSITION and DRY DEPOSITION. (3 Marks)
- c) Name any four environmental problems faced by today's world.(4 Marks)
- d) Why is ozone layer important? (2 Marks)
- e) What is oxygen depletion? (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) List the most important types of environmental pollution. (3 Marks)
- j) Give any four types of devices used for pollution control. (2 Marks)

Question 2. (15 Marks)

- i. How is Smog formed? (10 Marks)
- ii. What are the effects of Smog? (5 Marks)

Question 3. (15 Marks)

Explain the various steps involved in persistent organic pollutants (POPs) analysis?

Question 4. (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)

Question 5. (15 Marks)

Discuss the various ways to prevent and control air pollution.