

**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.