



Technical University of Mombasa

Faculty of Applied and Health Sciences

DEPARTMENT OF PURE AND APPLIED SCIENCES

DIPLOMA IN ANALYTICAL CHEMISTRY
(DAC 12S)

AES 2215: ENVIRONMENTAL MANAGEMENT

SEMESTER: EXAMINATIONS

SERIES: DECEMBER 2013

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

- a) Give THREE reasons why heavy metals like Pb, Cd and Hg are considered as dangerous inorganic pollutants in the environment. **(6marks)**
- b) State FOUR
- (i) Causes of suspended solids and sediments in waste water.
 - (ii) Sources of Radioactive water pollution **(8marks)**
- c) SO₂ and CO are two of the most common Air pollutants known to mankind. Discuss their characteristics and Biomedical effects to Environment **(10marks)**
- d) Differentiate between
- (i) Biotic and Abiotic environment **(3marks)**
 - (ii) Terrestrial and Aquatic ecosystem **(3marks)**

Question TWO

- a) List any 7 methods that can be used for controlling soil pollution **(14marks)**
- b) Define the term environment. **(1mark)**

Question THREE

- a) Giving two examples in each case differentiate between Renewable and non-renewable energy. **(6marks)**
- b) State TWO limiting factors of solar energy **(4marks)**
- c) Define (i) EIA. (Environmental Impact Assessment) **(3marks)**
(ii) EIS (Environmental Impact Statement) **(2marks)**

Question FOUR

- a) List SEVEN important aspects that should be considered for design of an EIA process. **(7marks)**
- b) State FOUR steps that comprises environmental auditing. **(8marks)**

Question FIVE

- a) List SEVEN objectives of environmental management. **(14marks)**
- b) Define Energy **(1mark)**