

## **Technical University of Mombasa**

Faculty of Applied and Health Sciences

## DEPARTMENT OF PURE AND APPLIED SCIENCES

DIPLOMA IN ANALYTICAL CHEMISTRY
DIPLOMA IN MICROBIOLOGY AND BIOTECHNOLOGY
(DAC 11M / DIMBT 11M)

**AES 2303: ENVIRONMENTAL MANAGEMENT** 

**SPECIAL/SUPPLEMENTARY: EXAMINATIONS** 

**SERIES:** FEBRUARY 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 2 PRINTED pages

## **Question ONE**

<ul> <li>a) Define the following terms <ul> <li>(i) Transboundary pollution</li> <li>(ii) Sustainable development</li> </ul> </li> <li>b) Explain FIVE advantages of an ISO 14001 certified firm</li> <li>c) Explain THREE environmental effects and THREE health effects of air pollution</li> <li>d) Explain FOUR advantages carrying out an EIA</li> <li>e) Explain THREE land pollutants resulting from agricultural activities</li> <li>f) Briefly explain bioaccumulation of heavy metals in food chains</li> <li>g) Using examples distinguish between renewable and non-renewable natural resort</li> </ul>	(4marks) (3marks) (4marks)
Question TWO	
Discuss causes of water pollution	(15marks)
Question THREE	
Outline the process of carrying out an EIA	(15marks)
Question FOUR	
Discuss the provisions of the 1999 EMCA Act	(15marks)
Question FIVE	

Discuss the following global environmental issues

Solid waste accumulation

Ozone layer depletion

Acid rain

(i)

(ii)

(iii)

(6marks)

(5marks)

(5marks)