

# TECHNICAL UNIVERSITY OF MOMBASA

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Faculty of applied and health sciences

## DEPARTMENT OF PURE AND APPLIED SCIENCES UNIVERSITY EXAMINATION FOR:

DIPLOMA IN ANALYTICAL CHEMISTRY (DAC14S)  
AES 2215 ENVIRONMENTAL MANAGEMENT

END OF SEMESTER EXAMINATION

**SERIES: April 2016** PAPER –B

**TIME: 2 HOURS**

### Instructions to Candidates

You should have the following for this examination

-Answer Booklet, examination pass and student ID

This paper consists of Choose No questions. Attempt Choose instruction.

**Do not write on the question paper.**

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### Question ONE

- (a) Explain the chemical process of ocean acidification 4 marks
- (b) State FOUR main contributing factors of biodiversity loss 4 marks
- (c)(i) Name TWO factors that have influenced global temperatures 2 marks
- (ii) List human-driven contribution factors to loss of biodiversity 2 marks
- (d) List changes which have occurred as a result of climate change 4 marks
- (e) Outline the formation of acid rain 4 marks
- (f) Explain the meaning of the following terms:
- (i) Biomagnifications 2 marks
- (ii) Eutrophication 2 marks
- (g)(i) Define the term recycling 2 marks
- (ii) Explain why chlorofluorocarbons chemicals are not used in industries 2 marks
- (h) Name TWO diseases caused by air pollution 2 marks

### Question TWO

- (a) Describe sources of air pollution 7 marks
- (b) Discuss why population dynamics matters for sustainable development 8 marks

**Question THREE**

(a) Discuss the purpose of environmental impact assessment

8 marks

(b) Describe the main contributors of climate change

7 marks

**Question FOUR**

(a) Discuss the changes which have taken place since the industrial revolution

8 marks

(b) Explain ways of controlling misuse of fresh water

7 marks

**Question FIVE**

(a) Describe the phosphorus cycle

8 marks

(b) Describe sources of air pollution

7 marks