



# TECHNICAL UNIVERSITY OF MOMBASA

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FACULTY OF APPLIED AND HEALTH SCIENCES

DEPARTMENT OF ENVIRONMENT & HEALTH SCIENCES

**UNIVERSITY EXAMINATION FOR:**

**DIPLOMA IN ENVIRONMENTAL SCIENCE**

**DES/17S/YEAR 1/ SEMESTER 1**

**AES 2103: ENVIRONMENT AND SUSTAINABLE DEVELOPMENT**

**SPECIAL/ SUPPLEMENTARY EXAMINATIONS**

**SERIES: SEPTEMBER 2018**

**TIME: 2 HOURS**

## *Instructions to Candidates*

This paper consists of FIVE questions

Answer question ONE (COMPULSORY) and any other TWO questions

*This paper consists of two printed pages.*

*Mobile phones are NOT allowed in the examination room*

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## **QUESTION ONE**

- a) Explain the following principles on environment management
  - ii. Precautionary Principle (2 marks)
  - iii. Polluter Pays Principle (2 marks)
- b) Differentiate between Sustainable development and Environmental sustainability (4 marks)
- c) Outline measures you can take to save electricity in the house (5 marks)
- d) Describe attributes of an environmental journalist. (5 marks)
- e) Explain why protected areas have failed to prevent the loss of biodiversity. (6marks)
- f) Explain why the survival and socio-economic wellbeing of Kenyans is ultimately intertwined with the environment. (6 marks)

## **QUESTION TWO**

There has been a major controversy concerning mega development projects in Kenya. These include the Northern water tunnel in Murang'a, and the SGR projects. Discuss any five guiding principles that may be applied to ensure such controversies do not arise in future. (15 marks)

### **QUESTION THREE**

Discuss major environmental impacts that result from human development projects.  
(15 marks)

### **QUESTION FOUR**

Discuss environmental problems associated with or exacerbated by human overpopulation and over-consumption (15 marks)

### **QUESTION FIVE**

- i. Equitable use of resources is important for sustainable lifestyles. Discuss (8 marks)
- ii. Human–wildlife conflict is a growing concern and provides a major challenge to wildlife conservation in Kenya. Discuss this statement. (7 marks)