



# TECHNICAL UNIVERSITY OF MOMBASA

## SCHOOL OF HUMANITIES AND SOCIAL SCIENCES

### SOCIAL SCIENCES

#### UNIVERSITY EXAMINATION FOR:

#### BACHELOR OF SCIENCE IN DEVELOPMENT STUDIES BSDS

#### AES: 4232: ENVIRONMENTAL RESOURCE MANAGEMENT

**SERIES:SEPT 2017**

**TIME:2 HOURS**

**DATE:19 SEPT. 2017**

#### **Instructions to Candidates**

You should have the following for this examination

*-Answer Booklet, examination pass and student ID*

This paper consists of **FIVE** questions. Attempt question ONE (Compulsory) and any other TWO questions.

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

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#### **Question ONE (30mks) compulsory)**

- a) Identify and explain FOUR routes of entry of toxic materials into the ground water ( 12 mks)
- b) Differentiate between baling and pulverization ( 4mks)
- c) Discuss ways government can be involved in environmental protection ( 6mks)
- d) Define the term strategic environmental assessment and how it can be used to protect the environment ( 8mks)

#### **Question TWO (20mks)**

- a) Use a schematic diagram to highlight the process of liquid waste treatment. ( 10mks)
- b) Define the term environmental justice and how it can be used to enhance environmental protection ( 10mks)

#### **Question THREE: (20mks)**

- a) Define the following terms
  - i) Transfer station
  - ii) Sanitary landfill
  - iii) incineration
  - iv) biological oxygen Demand (BOD)

- v) flocculation (10mks)
- b) Poverty has a direct link to environmental destruction. Discuss this statement by giving specific examples ( 10mks)

**Question FOUR (20mks)**

- a) Identify and explain FIVE diseases caused by environmental pollution ( 10mks)
- b) Identify and explain FIVE special safety methods that can be used in housing projects( 10mks)

**Question FIVE**

- a) Define the term sustainable development and explain its principles ( 6mks)
- b) Explain the following regarding environmental conservation:
  - i) Polluter pays principle
  - ii) Good neighborhood
  - iii) Carbon cycle
  - iv) Water purification ( 8mks)
- c) Discuss how education curriculum can tailored to inspire learners to conserve environment ( 6mks)