



TECHNICAL UNIVERSITY OF MOMBASA

FACULTY OF APPLIED AND HEALTH SCIENCES

DEPARTMENT OF ENVIRONMENT & HEALTH SCIENCES

UNIVERSITY EXAMINATION FOR:

DIPLOMA IN ENVIRONMENTAL SCIENCE

DES17S/YEAR2/SEMESTER2

AES2209: WASTE MANAGEMENT AND ENVIRONMENTAL POLLUTION

SPECIAL/SUPPLEMENTARY EXAMINATION

SERIES: AUGUST 2019

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

QUESTION ONE (30MARKS)

- a) Briefly explain **THREE** source based types of water pollution (3Marks)
- b) Highlight **FIVE** community sensitization strategies in municipal waste management (5Marks)
- c) State **FIVE** chemical methods of waste management (5Marks)
- d) State **FIVE** concrete sources of indoor air pollution in informal settlement (5Marks)
- e) Outline **TWO** limitations of sanitary landfill in solid waste management (2Marks)

- f) Identify **FIVE** sources of smog forming emission (5Marks)
- g) Enumerate **FIVE** chronological steps in solid waste management (5Marks)

QUESTION 2

- a) Describe **FIVE** major methods of solid waste management to day (10Marks)
- b) Explain key challenges to effective waste management today (5Marks)

QUESTION 3

Discuss impacts of informal waste management on human health and Environment (15Marks)

QUESTION 4

Municipal waste management is a positive investment and not an economic burden. Discuss (15Marks)

QUESTION 5

- a) Describe modern methods of waste water treatment (10Marks)
- b) Write short notes on radioactive waste generation (5Marks)