

TECHNICAL UNIVERSITY OF MOMBASA

FACULTY OF ENGINEERING AND TECHNOLOGY

DEPARTMENT OF MEDICAL ENGINEERING

UNIVERSITY EXAMINATION FOR:

DIPLOMA IN MEDICAL ENGINEERING

ECL2205: SANITATION AND ENVIRONMENTALMANAGEMENT

SPECIAL/SUPPLEMENTARY EXAMINATION

SERIES: SEPTEMBER 2018

TIME: 2HOURS

DATE: Pick Date Sep 2018

Instructions to Candidates

You should have the following for this examination

-Answer Booklet, examination pass and student ID

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

Do not write on the question paper.

Question ONE

- (a) Describe the following terms
 - i) Pollution
 - ii) Environmental management
 - iii) Sanitation Environment
 - iv) Environmental degradation

(10 marks)

(b) Describe five environmental issues in Kenya

(10 marks)

- (c) i) Explain how depletion of Ozone layer occurs citing the cause
 - ii) Outline the effects of acid rain on the environment

(10 marks)

Question TWO

(a) Describe four prevention and control m	easures for industrial pollution	(10 marks)
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(b) Describe the two categories for decomposition of biological pollutants

(10 marks)

Question THREE

(a) Describe the three fundamental causes of environmental pollution(b) Explain the four basic methods of water pollution control	
Question FOUR	
(a) i) Describe the following terms as used in Environmental ManagementI) Environmental Impact AssessmentII) Environmental Audit	
ii) Explain the two roles of Environmental Impact assessment(b) Using illustration or otherwise, describe the process of activated sludge	
Question FIVE	
(a) i) Describe the three characteristics of environmental pollutants	
ii) Describe the following terms	
I) Industrial smog	
II) Photochemical smog	(10 marks)
(b) i) Differentiate between Re-use and Recycle methods used in solid waste management ii) Explain any three methods of waste disposal	(10 marks)