



KENYATTA UNIVERSITY

UNIVERSITY EXAMINATIONS 2011/2012

**FIRST SEMESTER EXAMINATION FOR THE DEGREE OF BACHELOR OF
SCIENCE (WATER ENGINEERING)**

SET 526: WATER ENGINEERING PRACTICE

DATE: WEDNESDAY 7TH DECEMBER 2011

TIME: 11.00 A.M. – 1.00 P.M.

INSTRUCTIONS

Answer Question 1 (one) and any other two

Question 1

With respect to the Sinai fire tragedy of August 12, 2011, two decisions ought to have been made, to evict or not to evict the slum dwellers.

- (a) Draw a table listing all the characters and their interests (5 marks)
- (b) Use event trees to analyse the consequences of either decision (10 marks)
- (c) Using utilitarian theory, evaluate the net goodness of either decision (10 marks)
- (d) Recommend what you think the right decision should have been. (5 marks)

Question 2

- (a) What is Engineering Ethics? (2 marks)
- (b) Outline the fundamental principles of the code of ethics for Engineers (4 marks)
- (c) What are the fundamental canons of this code? (14 marks)

Question 3

- (a) What are the sources of law in Kenya? (10 marks)

- (b) Define Torts and outline the major purposes of Torts law (10 marks)

Question 4

- (a) Explain five essential elements of a valid contract.(10 marks)
(b) In relation to the law of contract, explain circumstances when a mistake will vitiate a contract.(10 marks)

Question 5

- (a) Construct a simple model to illustrate the origin of moral action (4 marks)
(b) For each component of this model, give a definition of the terms (6 marks)
(c) What are the limitations of this model? (2 marks)
(d) List and describe the cardinal values as described in classical philosophical ethics (8 marks)