



# TECHNICAL UNIVERSITY OF MOMBASA

*Faculty of Engineering & Technology in Conjunction with Kenya  
Institute of Highways & Building Technology (KIHBT)*

DEPARTMENT OF BUILDING & CIVIL ENGINEERING

HIGHER DIPLOMA IN BUILDING ECONOMICS

## **EBC 3112: SPECIFICATIONS AND QUANTITIES II**

END OF SEMESTER EXAMINATIONS

**SERIES:** APRIL 2014

**TIME:** 2 HOURS

### **INSTRUCTIONS:**

- You should have the following for this examination:
  - SMM for Building works
  - Pocket calculator
  - Dimension papers
- Answer any **THREE** questions

***This paper consists of Two printed pages.***

### QUESTION 1

Take off all the quantities for the underground tank as per drawing No. 01/14. (20 marks)

### QUESTION 2

- a) Illustrate the use of the following on the dimension paper:
- i) Use of ditto
  - ii) Grouping dimensions
  - iii) Grouping descriptions
  - iv) Use of “Nil” (8 marks)
- b) Briefly explain the operation of “**working up**” in measurement of building works. (4 marks)
- c) State **EIGHT** roles of the Quantity Surveyer. (8 marks)

### QUESTION 3

Take off the quantities for the drawing No. 03/013 attached. (20 marks)

### QUESTION 4

- a) Define the “Bills of Quantities”. (5 marks)
- b) Outline **FIVE** contents of the Bill of Quantities. (5 marks)
- c) Briefly describe the traditional method of Quantity Surveying technique giving **TWO** disadvantages. (10 marks)

### QUESTION 5

Take off all the quantities for the water tower attached (ignore reinforcement). (20 marks)