



TECHNICAL UNIVERSITY OF MOMBASA  
**Faculty of Engineering &  
Technology**

DEPARTMENT OF BUILDING & CIVIL ENGINEERING  
**DIPLOMA IN ARCHITECTURE (DARC 13M)**

EBC 2225: MEASUREMENT & SPECIFICATION OF BUILDING & CIVIL ENG  
WORKS

**END OF SEMESTER EXAMINATION**  
**SERIES: AUGUST 2014**  
**TIME ALLOWED: 2 HOURS**

**Instructions to Candidates:**

You should have the following for this examination

- *Answer Booklet*

This paper consists of **FIVE** questions. Answer any **THREE** questions

All questions carry equal marks

Maximum marks for each part of a question are as shown  
Use neat, large and well labeled diagrams where required  
This paper consists of **TWO** printed pages

### Question

Take off all quantities for drawing No. 01/14 attached. **(20 marks)**

### Question Two

- a) Briefly define the “Bills of Quantities” **(3 marks)**
- b) State FIVE objectives of adopting the Bills of Quantities as a method of procurement of Building and Civil Engineering Contracts. **(5 marks)**
- c) Define the term “Preliminaries” giving THREE examples. **(7 marks)**
- d) Explain the THREE processes of working up. **(5 marks)**

### Question Three

- a) State TEN functions of the quantity surveyor in the construction process. **(5 marks)**
- b) Briefly explain the following forms of tendering:
  - (i) Open tendering
  - (ii) Selective tendering
  - (iii) Negotiated tendering**(9 marks)**
- c) Describe the “lumsome contract” giving TWO disadvantages and TWO advantages. **(6 marks)**

### Question Four

Take off all the quantities of the drawing No0 02/14 attached. **(20 marks)**

### Question Five

- a) Briefly explain the THREE types of payment certificates used in contracts. **(10 marks)**
- b) Illustrate the use of the following one the dimension paper:
  - (i) Grouping descriptions
  - (ii) Grouping dimensions
  - (iii) Use of diHo
  - (iv) Use of “Nil”
  - (v) Deduction of voids in measured areas**(10 marks)**