



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

DEPARTMENT OF BUILDING & CIVIL ENGINEERING
DIPLOMA IN ARCHITECTURE

EBC 2225: MEASUREMENT OF BUILDING WORKS

END OF SEMESTER EXAMINATION

SERIES: DECEMBER 2014
TIME ALLOWED: 2 HOURS

Instructions to Candidates:

You should have the following for this examination

- *Answer Booklet*
- *Standard Methods of Measurement of Building Works*
- *Pocket Calculator*
- *Dimension Paper*

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

- a) Outline FOUR reasons bills of quantities are adopted in building and civil engineering contracts. **(2 marks)**
- b) Briefly describe the process of taking off. **(3 marks)**
- c) Briefly explain the following:
 - (i) Provisional sum
 - (ii) Prime cost sum**(6 marks)**
- d) With the aid of an illustration, explain the following as used in taking off:
 - (i) Use of a query sheet
 - (ii) Use of “ditto”
 - (iii) Grouping descriptions**(9 marks)**

Question Two

- a) State FIVE components of the Bills of Quantities. **(5 marks)**
- b) Explain the term “Preliminaries” giving three examples. **(5 marks)**
- c) Briefly explain the “working up” procedures. **(6 marks)**
- d) Describe the term “defects liability period” as used in Civil Engineering Contracts. **(4 marks)**

Question Three

Take off all quantities as per drawing no 011/14 attached up to sub-structures. **(20 marks)**

Question Four

Take off all quantities for the drawing 012/14 attached **(20 marks)**

Question Five

Take off quantities for the drawing 02 attached. **(20 marks)**