THE MOMBASA POLYTECHNIC UNIVERSITY COLLEGE

(A Constituent College of JKUAT)
(A Centre of Excellence)

Faculty of Engineering & Technology

DEPARTMENT OF BUILDING & CIVIL ENGINEERING

DIPLOMA IN BUILDING & CIVIL ENGINEERING
DIPLOMA IN CIVIL ENGINEERING

EBC 2213: MEASUREMENT OF BUILDING WORKS I

END OF SEMESTER EXAMINATION
SERIES: AUGUST 2012
TIME: 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
Maximum marks for each part of a question are as shown
This paper consists of **TWO** printed pages

Question One (20 marks)

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

Question Two (20 marks)

a) Briefly describe the open tendering system of procurement for building and civil engineering works giving **TWO** advantages and **TWO** disadvantages. **(13 marks)**

b) Illustrate the use of the following while taking off.
   i) Grouping dimension
   ii) User of ditto
   iii) Dotting on
   iv) Grouping description. **(4 marks)**

Question Three (20 marks)

a) Describe the term variation as used in contracts and give **TWO** reasons of its occurrence.
(5 marks)
b) Explain why Tenders are used in building and civil engineering and state **THREE** items included in the formal call for tenders. **(5 marks)**

c) Briefly describe the Bills of Quantities and give **FIVE** reasons for its use in Building and Civil Engineering Contracts. **(10 marks)**

Question Four (20 marks)

a) Briefly explain the term "Defects liability period' **(5 marks)**

b) Describe the **THREE** payment certificates used in building and civil engineering contracts.
(6 marks)
c) Briefly explain the following sums as used in the Bills of quantities.
   i) Provisional sum
   ii) Prime cost sums
   iii) Contingency sums **(9 marks)**

Question Five (20 marks)

Take off all quantities for the underground fame attached on drawing No. 02. **(20 marks)**