



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

SPECIAL/SUPPLEMENTARY EXAMINATION

SERIES: OCTOBER 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 up to substructures for the drawing No. attached. **(20 marks)**

Question Two (20 marks)

- a) Briefly describe the open tendering system giving two advantages and two disadvantages. **(7 marks)**
- b) Explain the “Lumpsome Contract” **(3 marks)**
- c) State **TEN** roles of the quantity surveyor in Building and Civil Engineering subjects. **(10 marks)**

Question Three (20 marks)

Take off all quantities for the underground up to sub structures. **(20 marks)**

Question Four (20 marks)

- a) State **SIX** contents of the Bills of Quantities. **(3 marks)**
- b) Describe the term “Preliminaries” and give **THREE** examples of items that fall under this. **(8 marks)**
- c) Using illustrations, explain the following terms:
 - (i) Dotting on
 - (ii) Grouping dimensions
 - (iii) Use of ditto **(9 marks)**

Question Five (20 marks)

- a) Explain the meaning of “tendering” and give **THREE** possible documents that should be provided for in each tender document. **(5 marks)**
- b) Explain the **THREE** forms of Certificates used in payments to contractors. **(6 marks)**
- c) With the aid of sketch, explain the **FOUR** column of the dimension paper. **(4 marks)**
- d) Explain what is meant by “working up” as used in quantity surveying. **(5 marks)**