



THE MOMBASA POLYTECHNIC UNIVERSITY COLLEGE

(A Constituent College of JKUAT) Faculty of Engineering and Technology

DEPARTMENT OF BUILDING AND CIVIL ENGINEERING CONSTRUCTION TECHNICIAN PART II EBC 1110: MEASUREMENT OF BUILDING WORKS

END OF SEMESTER EXAMINATION

SERIES: DECEMBER 2011

TIME: 2 HOURS

Instructions to Candidates:

You should have the following for this examination

- Answer Booklet
- Pocket Calculator
- Dimension papers
- A copy of the Standard Method of Measurement for Building Works

This paper consists of FIVE questions

Answer question **ONE (COMPULSORY)** from **SECTION A** and any other **TWO** questions from **SECTION B** Maximum marks for each part of a question are clearly shown

SECTION A (COMPULSORY)

Question 1 (40 marks)

Take off all quantities for the drainage works shown in drawing No. 01	(40 marks)
SECTION B (Attempt any TWO questions)	
Question 2 (30 marks)	
Take off all quantities for the Pitched roof in drawing No. 02	(30 marks)
Question 3 (30 marks)	
Take off all quantities for the finishes shown in drawing No. 03	(30 marks)
Question 4 (30 marks)	
a) Outline FOUR purposes of the Bill of quantities	(8 marks)
 b) Describe the following types of Bills. (i) Elemental (ii) Operational (iii) Traditional 	(9 marks)
 c) Describe the following processes of Bill Squaring Abstracting Billing 	(9 marks)
d) With suitable illustrations, explain what is meant by "running through the dimensionQuestion 5 (30 marks)	s". (4 marks)
 a) Briefly explain the following types of building and civil engineering contracts: (i) Lump sum contracts (ii) Schedule contracts (iii) All-in contracts 	
(iv) Target contracts	(12 marks)
b) Give ONE example of a provisional sum and TWO examples of a prime cost sum they could be entered in a dimension paper	showing how (8 marks)
c) (i) Explain Negotiated contract as a method of procurement of Tender	
(ii) Outline THREE common types of negotiated contracts	(10 marks)