

TECHNICAL UNIVERSITY OF MOMBASA Faculty of Engineering & Technology

DEPARTMENT OF BUILDING & CIVIL ENGINEERING

HIGHER DIPLOMA IN BUILDING & CIVIL ENGINEERING (HDBCE)

EBC 3322: MEASUREMENTS OF BUILDING WORKS

SPECIAL/SUPPLEMENTARY EXAMINATION SERIES: OCTOBER 2013 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 Maximum marks for each part of a question are as shown

Question One

 a) Describe the following contract documents: (i) Bills of quantities (ii) Specifications (iii) General conditions of contracts (iv) Form of agreement 	
(v) Farm of tender	(10 marks)
 b) (I) Outline FOUR purposes of the bills of quantities (II) Describe the following types of bills of quantities (i) Elemental (ii) Operational (iii) Traditional 	(4 marks) (6 marks)
(III) Briefly explain the following types of contracts:	
 (i) Lump sum contracts (ii) schedule contracts (iii) All-in contracts (iv) Target Contracts 	(10 marks)
Question Two	
Take off all quantities off the flat roof shown in drawing No. 01	(20 marks)
Question Three	
Take off all quantities for the timber casement window shown in drawing No.	02 including all adjustments (20 marks)
Question Four	
Take off all quantities for the water tower shown in drawing No. 03	(20 marks)
Question Five	
Take off all quantities for the finishes shown in drawing No. 04	(20 marks)