



THE MOMBASA POLYTECHNIC UNIVERSITY COLLEGE

Faculty of Engineering

DEPARTMENT OF BUILDING AND CIVIL ENGINEERING

DIPLOMA IN CIVIL ENGINEERING & COMPUTER DIPLOMA IN BUILDING AND COMPUTER

MEASUREMENT

END OF SEMESTER I EXAMINATION

SERIES: APRIL/MAY 2010

TIME: 3 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 of Building Works

This paper consists of **FIVE** questions.

Question No.1 in Section **A** is Compulsory.

Answer question **ONE** in Section **A** and any other **TWO** questions in Section **B**. Question 1 carries 40 marks while those in Section **B** carries 30 marks each. Maximum marks for part of question are as shown.

SECTION A

(Compulsory)

Q.1	Take off all quantities for the Substructure works shown in drawing	
	No.01C up to and including the DPC.	(40 marks)

SECTION B

(Answer any $\boldsymbol{\mathsf{TWO}}$ questions from this Section)

Q.2	(a)	List and briefly explain FIVE types of Building and Civil Engineerin Contracts.	ng (15 marks)
	(b)	Explain with illustrations the use of the FOUR columns of the dimension paper.	(15 marks)
Q.3	(a)	Define SIX roles of the Quantity Surveyor in a Construction Project two at each of the following stages: During design, During construction and after completion.	t, (18 marks)
	(b)	With suitable illustrations, explain how the following are used in the Traditional method of Bill of Quantities preparation.	(12 marks)
		 Grouping of dimensions Grouping of descriptions Dotting-on Ditto 	
Q.4	(a)	Define SIX purposes of a Bill Quantities with a brief explanation of each.	f (18 marks)
	(b)	Outline and briefly describe THREE sections of a Bill of Quantities which have a cost implication.	(12 marks)
Q.5	(a)	Differentiate between Trade by Trade and Elemental bill giving FIVE examples of each.	(20 marks)
	(b)	Explain the meaning of the term 'Preliminaries' and list FIVE items which may appear in a Preliminary Bill.	s (10 marks)