



THE MOMBASA POLYTECHNIC UNIVERSITY COLLEGE

Faculty of Engineering

DEPARTMENT OF BUILDING AND CIVIL ENGINEERING

CONSTRUCTION TECHNCIAN II

MEASUREMENT

FINAL 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.01E up to and including the DPC. (40 marks)

SECTION B
(Answer any **TWO** questions from this Section)

- Q.2 Establish the mean girth of the figures shown in drawing No.03. (30 marks)
- Q.3 (a) Explain the **FOUR** stages of bill preparation using the Traditional method. (12 marks)
- (b) Give **SIX** differences between Building and Civil Engineering Quantities with a brief explanation of each. (18 marks)
- Q.4 (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. (18 marks)
- (b) State and give brief explanation on the use of the **FOUR** columns of the dimension paper. (12 marks)
- Q.5 Explain the meaning of the following terms as used in a Bill of Quantities and how they are expended. (30 marks)
- (a) P.C Sums
- (b) Provisional Sums
- (c) Contingencies.