



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 (DBC 10B) DIPLOMA IN ARCHITECTURE (DA 10B)

EBC 2310: MEASUREMENTS II

SPECIAL/SUPPLEMENTARY EXAMINATION SERIES: OCTOBER 2012 TIME: 2 HOURS

Instructions to Candidates:

You should have the following for this examination

- Answer Booklet
- Dimension Papers
- A Copy of Standard Method of Measurement Booklet for Building Works

This paper consists of **FIVE** questions. Answer question **ONE** and any other **TWO** questions Maximum marks for each part of a question are as shown This paper consists of **THREE** printed pages

This paper consists of THREE printed page

Question One (Compulsory - 30 marks)

Take off quantities for the door shown on drawing No. 02 including painting work and ironmongery

(30 marks)

Question Two (20 marks)

a) State the purposes of bills of quantities.

(6 marks)

b) Describe **FOUR** functions of a quantity surveyor.

(4 marks)

- c) Describe the following terms used in taking off.
 - i) Prime cost items
 - ii) Preambles
 - iii) Prime cost sum
 - iv) Provisions sums
 - v) Extra over stems (10 marks)

Question Three (20 marks)

Drawing numbered Q1 (a) and 01(b) show layout of a domestic drainage system take off all quantities for the drainage work. (20 marks)

Question Four (20 marks)

- a) The following grid levels were recorded on a sloping site. It was required to excavate down to a level of 3.0m including excavating vegetable soil to a depth of 150mm. Calculate the adjusted depth.
- **b)** Take off the quantities of the earthworks to be excavated.

(20 marks)

Question Five (20 marks)

- a) Explain the following terms used in taking off:
 - i) Timesing
 - ii) Quantities
 - iii) Querry sheets
 - iv) Squaring dimensions
 - v) Working up (10 marks)
- b) Briefly discuss forms of bill of quantities. (10 marks)