



# THE MOMBASA POLYTECHNIC UNIVERSITY COLLEGE

(A Constituent College of Jkuat)

Faculty of Engineering and Technology

DEPARTMENT OF BUILDING AND CIVIL ENGINEERING

#### **DIPLOMA IN BUILDING & CIVIL ENGINEERING**

EBC 2310: MEASUREMENT OF BUILDING WORKS II

END OF SEMESTER EXAMINATION

SERIES: AUGUST/SEPTEMBER 2011

TIME: 2 HOURS

## **Instructions to Candidates:**

You should have the following for this examination

Answer booklet

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 **TWO** printed pages

#### SECTION A (COMPULSORY)

## **Question 1**

Take off all the quantities for substructure work shown on drawing number 01 (40 marks) (Ignore the reinforcement) **SECTION B (Answer any TWO questions from this section) Question 2** Take off all quantities for the door shown in drawing number 02 (20 marks) **Question 3** ( 20 marks) Take off all quantities for the superstructure work shown in drawing number 03 **Question 4** a) (i) Define the term 'variations' as used in the measurement (2 marks) (ii) Outline **FOUR** methods used in valuation of variations (4 marks) b) Outline the procedure for preparation of interim payment certificate (5 marks) c) State **FIVE** conditions that must be satisfied for a contract to be valid (5 marks) d) Explain the following: (i) Unit rate (2 marks) All- in –labor rate (2 marks) (ii) **Question 5** a) Briefly describe the following types of contract Bills of quantities contract (i) (4 marks) (ii) Lump sum contract (4 marks) Cost plus percentage fee centre (iii) (4 marks) Target contract (4 marks) (iv) b) Briefly explain 'Open Tendering' (4 marks)