



# 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

**SPECIAL/SUPPLEMENTARY EXAMINATION**

SERIES: OCTOBER 2011

**TIME: 2 HOURS**

### **Instructions to Candidates:**

You should have the following for this examination

- *Answer booklet*
- *Pocket Calculator*
- *Dimension Paper*
- *A copy of the standard method of measurement for building work*

This paper consists of **FIVE** questions. Answer question **ONE (COMPULSORY)** 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

- a) Take off all quantities for the substructure works shown in drawing No. 01 (40 marks)

## SECTION B (Attempt any TWO questions. Each question from this section carries 30 marks)

### Question 2

- Take off all quantities for the door shown in drawing No. 02 (30 marks)

### Question 3

- Take off all quantities for the water tank shown in drawing No. 3 (30 marks)

### Question 4

- a) Briefly describe the duties of the following in a project  
(i) Quantity surveyor  
(ii) Architect (10 marks)
- b) Describe the following types of contracts  
(i) Cost plus fixed fee contract  
(ii) Cost plus percentage fee contract (8 marks)
- c) Outline the uses of a dimension paper (4 marks)
- d) Describe the uses of the following in a contract  
(i) Provisional sum  
(ii) Prime cost sums  
(iii) Contingency sums (8 marks)

### Question 5

- a) Explain the meaning of the following giving THREE examples of each  
(i) Spot items  
(ii) Deemed to be included items  
(iii) Extra over items (15 marks)
- b) Outline the following tendency method  
(i) Open tendency  
(ii) Selective tendency  
(iii) Package deal tendency (9 marks)
- c) Briefly describe the following types of Bills

- (i) Bills of Additions
- (ii) Bills of Omissions

(6 marks)