



# THE MOMBASA POLYTECHNIC UNIVERSITY COLLEGE

(A Constituent College of JKUAT)  
*Faculty of Engineering and Technology*

DEPARTMENT OF BUILDING AND CIVIL ENGINEERING

**HIGHER DIPLOMA IN BUILDING & CIVIL ENGINEERING**

EBC 3322: MEASUREMENT OF BUILDING WORKS

**END OF SEMESTER EXAMINATION**

SERIES: DECEMBER 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 (COMPULSORY)** from **SECTION A** and any other **TWO** questions from **SECTION B**

Maximum marks for each part of a question are clearly shown

This paper consists of **TWO** printed pages

## **SECTION A (COMPULSORY)**

### **Question 1 (30 marks)**

- a) Briefly describe what a contract is (3 ½ marks)
- b) Explain **FIVE** conditions that must be met for a contract to be valid (7 marks)
- c) Describe the following contract documents (9 marks)
- (i) Conditions of contract
  - (ii) Specifications
  - (iii) Bills of quantities
- d) Briefly describe the following types of building and civil engineering contracts (10 ½ marks)
- (i) Lump sum contracts
  - (ii) Target contracts
  - (iii) Schedule contracts

## **SECTION B (Answer any TWO questions from this section)**

### **Question 2 (20 marks)**

Take off all quantities for the drainage works shown in drawing number 1(a) and 1(b) (20 marks)

### **Question 3 (20 marks)**

Take off all the quantities for the door shown in drawing number 02 (20 marks)

### **Question 4 (20 marks)**

Take off all the quantities for the framed structure shown in drawing number 03 (20 marks)

### **Question 5 (20 marks)**

Take off all the quantities for the water supply shown in drawing number 04 (20 marks)