



# THE MOMBASA POLYTECHNIC UNIVERSITY COLLEGE

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

DEPARTMENT OF BUILDING AND CIVIL ENGINEERING

*Institutional Based Program*

UNIVERSITY EXAMINATION FOR BACHELOR OF SCIENCE IN  
BUILDING & CIVIL ENGINEERING

EBC 4322: QUANTITY SURVEYING I

END OF SEMESTER EXAMINATION

SERIES: APRIL 2012

TIME: 2 HOURS

## Instructions to Candidates:

You should have the following for this examination

- *Answer Booklet*
- *Standard Method of Measurement for building work*

This paper consists of **FIVE** questions in **TWO** sections **I & II**

Answer question **ONE (Compulsory)** and any other **TWO** questions

Maximum marks for each part of a question are clearly shown

This paper consists of **TWO** printed pages

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## SECTION I (Compulsory)

### Question 1

- a) (i) Name **FIVE** contract documents used in building and civil engineering projects
- (ii) Describe **FIVE** conditions that must be met for a contract to be valid (10 marks)
- b) Briefly describe the following types of contracts used in building and civil engineering works:-
- (i) Bills of quantities contracts
  - (ii) Cost plus percentage fee contracts
  - (iii) Schedule contracts
  - (iv) All-in contracts (15 marks)
- c) Explain what 'day works' are as used in work measurements (5 marks)

**SECTION II (Answer any TWO questions)**

**Question 2**

Take off all the quantities for the external works shown in drawing number 01 (20 marks)

**Question 3**

Take off all the substructure work shown in drawing number 02 (20 marks)

**Question 4**

Take off all the quantities the flush door shown in drawing number 03 (20 marks)

**Question 5**

Take off all the quantities for the underground tank shown in drawing number 04 (20 marks)