



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)