



THE MOMBASA POLYTECHNIC UNIVERSITY COLLEGE

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

DEPARTMENT OF BUILDING AND CIVIL ENGINEERING

CONSTRUCTION TECHNICIAN PART II

EBC 1129: MEASUREMENT OF BUILDING WORKS I

SPECIAL/SUPPLEMENTARY EXAMINATION

SERIES: MAY/JUNE 2012

TIME: 2 HOURS

Instructions to Candidates:

You should have the following for this examination

- *Answer Booklet*
- *Pocket calculator*
- *Standard method of measurement for building works*

This paper consists of **FIVE** questions.

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

Question 1 (COMPULSORY - 30 marks)

Take off all quantities for the drawing No. 01 for the sub-structure works (30 marks)

Question 2 (20 marks)

- a) Briefly describe the following tendering procedure giving TWO advantages of each
- (i) Opening tendering
 - (ii) Selective tendering
- (10 marks)
- b) Briefly explain the Lump sum type of building contract giving THREE advantages and THREE disadvantages (10 marks)

Question 3 (20 marks)

- a) Explain the following terms used in measurement of building works
- (i) Provisional sum
 - (ii) Prime cost sum
 - (iii) Contingency sum
 - (iv) Interim certificate
 - (v) Penultimate certificate
- (10 marks)
- b) Briefly state the importance of the following contract documents:
- (i) Drawings
 - (ii) Specifications
 - (iii) Conditions of contract
 - (iv) Form of tender
- (10 marks)

Question 4 (20 marks)

a) Take off all quantities for the drawing No. 04 of the basement attached (20 marks)

Question 5 (20 marks)

- a) Describe the BILLS OF QUANTITIES and state FIVE objectives of its use (7 marks)
- b) State the roles of the Quantity Surveyor at the following stages of the construction
- (i) Pre construction
 - (ii) Construction
- (13 marks)