



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 1118 : MEASUREMENT OF BUILDING WORKS I

END OF SEMESTER EXAMINATION

SERIES: AUGUST/SEPTEMBER 2011

TIME: 3 HOURS

Instructions to Candidates:

You should have the following for this examination

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

This paper consists of **FIVE** questions in **TWO** sections A & B

Answer questions **ONE (COMPULSORY)** and any other **TWO** questions

Maximum marks for each part of a question are shown

This paper consists of **THREE** printed pages

SECTION A (COMPULSORY – 40 MARKS)

Question 1

Take off all quantities for the foundations shown in drawing No. 01 (40 marks)

SECTION B (Attempt any TWO questions. Each question from this section carry 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 substructure works shown in drawing No. 03 (30 marks)

Question 4

a) Briefly explain the following items as applied in measurements giving an example in each case

- (i) Spot items
- (ii) Provisional items (8 marks)

b) Define the following terms

- (i) Tender sum
- (ii) Contract sum (4 marks)

c) State any **SIX** duties of the quantity surveyor in a construction project (6 marks)

d) Briefly describe the following types of contracts

- (i) Cost plus fixed fee contract
- (ii) Cost plus percentage fee contract
- (iii) Cost plus fluctuating fee contract
- (iv) Negotiated contract (12 marks)

Question 5

a) Describe the following contract documents

- (i) Bills of quantities
- (ii) Drawings
- (iii) Specifications
- (iv) Form of tender (12 marks)

b) Briefly describe the following

- (i) Preliminaries
- (ii) Preambles (6 marks)

c) Briefly outline the following types of bills

- (i) Elemental Bills
- (ii) Operational Bills
- (iii) Trade by Trade Bills

(12 marks)