

TECHNICAL UNIVERSITY OF MOMBASA

Faculty of Engineering & Technology

DEPARTMENT OF BUILDING & CIVIL ENGINEERING

CERTIFICATE IN BUILDING & CIVL ENGINEERING (CBCE)

EBC 1107: QUANTITY SURVEY I

SPECIAL/SUPPLEMENTARY EXAMINATION SERIES: FEBRUARY 2015 TIME ALLOWED: 2 HOURS

Instructions to Candidates:

You should have the following for this examination

- Answer Booklet
- Scientific Calculator
- Standard Method of Measurement for Building Work

This paper consists of **FIVE** questions. Answer any **THREE** questions of the **FIVE** questions All questions carry equal marks

Maximum marks for each part of a question are as shown

Use neat, large and well labeled diagrams where required This paper consists of **TWO** printed pages

Question One

Take off all quantities for the substructure works shown in drawing No 01 (20 marks)

Question Two

- a) Briefly describe the following types of contracts:
 - (i) Lump sum contract
 - (ii) Sum plus fluctuating fee contract
 - (iii) Sum plus fixed fee contract
 - (iv)Package deal contract (12 marks)
- b) Differentiate between Civil Engineering S.M.M and Building S.M.M (4 marks)
- c) State any FOUR roles of a quantity surveyor in a project (4 marks)

Question Three

Take off all quantities for the basement shown in drawing No 02 (20 marks)

Question Four

Take off all quantities for the substructure works shown in drawing No 03 (20 marks)

Question Five

- **a)** Briefly describe the FOUR columns of a dimension paper (4 marks)
- **b)** Illustrate the use of the following in taking off: (6 marks)
 - (i) Grouping descriptions
 - (ii) Group dimensions
 - (iii) Dotting on
- **c)** Briefly describe the following contract documents:
 - (i) Specifications
 - (ii) Bills of quantities
 - (iii) Contract drawings
 - (iv) Tender forms (10 marks)