



TECHNICAL UNIVERSITY OF MOMBASA
**Faculty of Engineering &
Technology**

DEPARTMENT OF BUILDING & CIVIL ENGINEERING
CERTIFICATE IN BUILDING & CIVIL ENGINEERING (CBCE 13S)

EBC 1102: QUANTITY SURVEY I

END OF SEMESTER EXAMINATION

SERIES: APRIL 2014

TIME ALLOWED: 2 HOURS

Instructions to Candidates:

You should have the following for this examination

- *Answer booklet*

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
This paper consists of **FOUR** printed pages

Question One

- a) Describe The following types of bills of quantities:
(i) Elemental
(ii) Operational
(iii) Traditional **(9 marks)**
- b) Outline FOUR purposes of the Bills of Quantities. **(5 marks)**
- c) Describe the following process of BILLING: **(3 marks)**
(i) Squaring
(ii) Abstracting
(iii) Billing **(3 marks)**

Question Two

- a) Briefly explain the following types of building and civil engineering contracts: **(12 marks)**
(i) Lump sum contracts
(ii) Schedule contracts
(iii) All-in one contracts
(iv) TARGET contracts
- b) Explain the roles of quantity surveyor. **(4 marks)**
- c) Define the word cost plus fixed fee **(12 marks)**
- d) Define the term Provisional Sums as used in preparation of B/Q. **(2 marks)**

Question Three

- a) Illustrate the use of the following in taking off: **(8 marks)**
(i) Grouping descriptions
(ii) Grouping dimensions
(iii) Dotting on
(iv) Use of "NIL"
- b) Briefly describe the following forms of tendering: **(6 marks)**
(i) Open tendering
(ii) Selective tendering
(iii) Negotiated tendering
- c) Briefly describe the FOUR columns of the dimension paper. **(6 marks)**

Question Four

- Take off all quantities up to substructure for the drawing No. 01 attached. **(20 marks)**

Question Five

Take off all quantities of underground circular tank shown on drawing no. 02

(20 marks)