



TECHNICAL UNIVERSITY OF MOMBASA

Faculty of Engineering & Technology

DEPARTMENT OF BUILDING & CIVIL ENGINEERING
DIPLOMA IN BUILDING & CIVIL ENGINEERING
EBC 2305: MEASUREMENT OF BUILDING WORKS

END OF SEMESTER EXAMINATION

SERIES: DECEMBER 2014
TIME ALLOWED: 2 HOURS

Instructions to Candidates:

You should have the following for this examination

- *Answer Booklet*
- *Standard method of measurement for building works*
- *Pocket Calculator*
- *Dimension Paper*

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 sub-structure works as per drawing No. 01/14 attached. **(20 marks)**

Question Two

- a) Briefly describe the following terms giving TWO examples of each:
- (i) Preliminaries
 - (ii) Pre-ambles
 - (iii) Prime cost items **(6 marks)**
- b) Outline FOUR items that are paid during the issuance of the interim payment certificate. **(4 marks)**
- c) Briefly discuss the following forms of tendering:
- (i) Selective tendering
 - (ii) Negotiated tendering
 - (iii) Open tendering **(6 marks)**
- d) Explain the term “Quantities” as used in the measurement of building works. **(4 marks)**

Question Three

Take off all quantities for the basement shown on drawing No. 02/14 attached. **(20 marks)**

Question Four

- a) Outline FIVE roles of the quantity surveyor during the pre-construction stage. **(5 marks)**
- b) Outline the process used in Quantity Surveying Bills of Quantities preparation **(6 marks)**
- c) Illustrate the following procedures while taking off:
- (i) Dotting on
 - (ii) Use a query sheet **(4 marks)**
- d) Outline FIVE functions of the Bills of Quantities **(5 marks)**

Question Five

Take off the Quantities for the drawing No. 04/14 attached (Super Structure only) **(20 marks)**