

TECHNICAL UNIVERSITY OF MOMBASA

Faculty of Engineering &

Technology

DEPARTMENT OF BUILDING & CIVIL ENGINEERING CERTIFICATE IN BUILDING & CIVIL ENGINEERING

EBC 1107: QUANTITY SURVEYING I

END OF SEMESTER EXAMINATION SERIES: APRIL 2015 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 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

| a) | Outline FIVE functions of the bill of quantities | (5 marks) |
|----------------|--|--|
| b) | State FOUR roles of the Quantity Surveyor in each of the following stages | (12 marks) |
| c) | Briefly define the "Bills of Quantities" as applied in the construction industry | (3 marks) |
| Question Two | | |
| a) | Briefly explain any FOUR forms of tendering giving TWO advantages and TWO disa each case | dvantages in (12 marks) |
| b) | Illustrate the use of the following on the dimension paper (i) Grouping descriptions (ii) Grouping dimensions (iii) Use of ditto (iv)Use of Nil | (8 marks) |
| Question Three | | |
| a) | Outline SIX differences between SMM for Civil Engineering works and SMM for building works. | |
| b) | Illustrate the booking of the following in the dimension paper: (i) Area of a triangle base 5m and height 4m (ii) Area of a circle, radius 7m (iii) Circumference of a semi-circle, radius 5m (iv) Volume of a cylinder 2m diameter, 5m high | (6 marks) (10 marks) |
| c) | Explain the term "variation" giving examples | (4 marks) |
| Question Four | | |
| a) | Briefly describe any TWO types of bill of quantities | (4 marks) |
| b) | Briefly describe FIVE conditions in which negotiated mode of tendering may appropriate in the construction industry | y be considered (15 marks) |
| c) | Differentiate between Taking off and abstracting as used in quantity surveying | (1 mark) |
| Question Five | | |
| | Briefly explain any FIVE construction contracts that are mostly used in the constructi List any FIVE effects of variations in the construction industry | on industry (15 marks) (5 marks) |
| U) | List any TTY E Chects of variations in the construction industry | (5 mai k5) |