

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)