

TECHICAL UNIVERSITY OF MOMBASA Faculty of Engineering &

Technology

DEPARTMENT OF BUILDING & CIVIL ENGINEERING

CERTIFICATE IN BUILDING CONSTRUCTION (CT II)

EBC 1124: MEASUREMENT OF BUILDING WORKS I

SPECIAL/SUPPLEMENTARY EXAMINATION SERIES: FEBRUARY 2013 TIME: 2 HOURS

Instructions to Candidates:

You should have the following for this examination

- Answer Booklet
- Standard Method of Measurement for Building Works

This paper consists of FIVE questions. Answer any THREE questions Maximum marks for each part of a question are as shown This paper consists of TWO printed pages Question One		
Tal	ke off all quantities for drawing No. 03 attached up to sub-structures.	(20 marks)
Question Two		
a)	Define the " <u>Open Tendering</u> " giving THREE advantages.	(5 marks)
b)	 The following are provided for in the Bills of Quantities. Briefly explain what they refine the cost sum (ii) Contingency from (iii) Provisional sum 	epresent. (9 marks)
c)	 The following terms are used when "taking off". Briefly explain their meaning: (i) Deemed to be included items (ii) Extra over items (iii) Querry sheet 	(6 marks)
Question Three		
Take off all Quantities for the Drawing No. 04 attached up to sub-structures level.(20 marks)		
Question Four		
a)	With the aid of a sketch, describe the BS 3327:1961 stationary for quantity surveyin "Dimension Paper"	ng referred as the (8 marks)
b)	State FOUR purposes for the Bills of Quantities.	(8 marks)
c)	Briefly describe "Grouping of Dimension"	(4 marks)
Question Five		
a)	 Using illustrations, show how the following irregular figures are booked when taking (i) Triangle with base 4m and height 3m (ii) Circle 2m radius (iii) Semi-circle with 2 m radius (iv) Volume of a cylinder 1m diameter 	off: (8 marks)
b)	Briefly describe the following processes of preparation of the Bills of Quantities.(i) Taking off(ii) Working up	(9 marks)
c)	Illustrate how "dotting on" is achieved.	(3 marks)