

TECHNICAL UNIVERSITY OF MOMBASA

Faculty of Engineering & Technology

DEPARTMENT OF BUILDING & CIVIL ENGINEERING

CERTIFICATE IN BUILDING & CIVIL ENGINEERING (CBCE 13M)

EBC 1108: BUILDING TECHNOLOGY I

SPECIAL/SUPPLEMENTARY EXAMINATION

SERIES: JULY 2014

TIME ALLOWED: 2 HOURS

Instructions to Candidates:

You should have the following for this examination

- Answer Booklet
- *Drawing Instruments*

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		
a)	State the importance of the Building Code in the design and construction of buildings.((8 marks)
b)	Briefly describe the following preliminary site works: (i) Site Access (ii) Existing services (iii) Adjoining structures (iv) Soil conditions (1)	(12 marks)
Question Two		
a)	Outline the characteristics of common sub-soil conditions based on the building code ((10 marks)
b)	With the aid of a sketch, describe timbering to a loose sub-soil condition ((10 marks)
Question Three		
a)	With the aid of a sketch describe the surveyor's instrument method of setting out simbuildings	nple rectangular (8 marks)
b)	Briefly describe the THREE methods used in site leveling ((12 marks)
Question Four		
a)	Briefly describe the FOUR forms of wall construction in buildings ((10 marks)
b)	Briefly describe the following features in wall openings. (i) Arches (ii) Lintils (iii) Sills (iv) Jambs (((10 marks)

- **Question Five**
- a) With the aid of a sketch describe the constructions of a solid ground floor. (8 marks)
- b) Briefly describe the process of laying gromolithic floor finish on a concrete background. (12 marks)