

## TECHNICAL UNIVERSITY OF MOMBASA

## Faculty of Engineering & Technology

DEPARTMENT OF BUILDING & CIVIL ENGINEERING

DIPLOMA IN BUILDING & CIVIL ENGINEERING (DBCE 13M)

EBC 2108: BUILDING TECHNOLOGY I

**END OF SEMESTER EXAMINATION** 

SERIES: DECEMBER 2013
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

Maximum marks for each part of a question are as shown This paper consists of **THREE** printed pages

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a)	Outline FOUR roles of a building inspector as per the building code.		(8 marks)
b)	With the (i) (ii)	ne aid of sketches, explain the following: Timbering Battering	(8 marks)
c)	Sketch	and label the parts of an independent scaffold	(4 marks)
Qu	estion '	Γwο	
	With the aid of a sketch, explain the setting out of a rectangular building using builder		
b)	(i) (ii)	ne aid of sketches, describe the following: Raft foundation Pad foundation	(8 marks)
c)	Explair (i) (ii)	n the roles of the following on site: Clerk of works Resident engineers	(4 marks)
Qu	estion '	Гhree	
a)	Sketch	and label the parts of a dog leg stair	(6 marks)
b)	With th	ne aid of a sketch, explain the construction of a solid group floor	(8 marks)
c)	Sketch	and label the parts of a casement window	(6 marks)
Qu	estion 1	Four	
a)	Define (i) (ii) (iii) (iv) (v)	the following: Curing of concrete Setting out Damp proof course Spacer block Reinforced concrete	(10 marks)
b)	Sketch (i) (ii)	the following: Flush door Ledged and battened door	(6 marks)
c)	With th	ne aid of a sketch, explain the construction of a random rubble wall	(4 marks)

## **Question Five**

a) Outline the procedure of fixing ceramic tiles as a floor finish (6 marks)

b) Sketch and label the parts of the following:

(i) Couple roof

(ii) Lean to roof

(iii) Trussed roof (6 marks)

c) Sketch and label the parts of a corner profile board (6 marks)

d) Name FOUR types of sanitary appliances (2 marks)