

TECHNICAL UNIVERSITY OF MOMBASA

Faculty of Engineering & Technology

DEPARTMENT OF BUILDING & CIVIL ENGINEERING

CERTIFICATE IN BUILDING & CIVIL ENGINEERING

EBC 1105: BUILDING TECHNOLOGY I

END OF SEMESTER EXAMINATION
SERIES: APRIL 2014
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 All questions carry equal marks
Maximum marks for each part of a question are as shown
Use neat, large and well labeled diagrams

Question One

a)	Explain FOUR purpose of site clearance.		(4 marks)
b)	Explai (i) (ii) (iii) (iv) (v)	n the following: Demolition Hand demolition Builders square Builders line Building line	(5 marks)
c)	Sketch	and label a corner profile.	(5 marks)
d)	With a	id of diagrams, illustrate how bored piles are fixed.	(6 marks)
Question Two			
a)	Define	the following terms:	(4 marks)
	(ii) (iii)	Back filing Timbering Profile board Arches	
b)	With a	id of sketch, explain procedure of setting out using a 3-4-5 method.	(10 marks)
c)	With a	id of a diagram describe a site square.	(4 marks)
Question Three			
a)	State F	IVE functional requirements of a wall.	(5 marks)
b)	Name '	TWO types of walls	(2 marks)
c) Define		the following:	(3 marks)
	(ii) L	ead load ife load oundation	
d)	With a	id of a diagram, explain procedure of setting out using a building square.	(10 marks)
Qι	ıestion	Four	
a)	a) What is scaffolding?		(2 marks)
b)	Sketch and label the following scaffolding:		(10 marks)
	(i) (ii)	Dependent Independent	

c) Sketch FIVE types of stairs (5 marks)
d) State THREE factors to consider when erecting a scaffold (3 marks)

Question Five
a) State FIVE functions of a roof (5 marks)
b) Draw a section of roof members (10 marks)
c) Draw a mobile scaffold. (5 marks)