

TECHNICAL UNIVERSITY OF MOMBASA

Faculty of Engineering & Technology

DEPARTMENT OF BUILDING & CIVIL ENGINEERING

CERTIFICATE IN BUILDING & CIVIL ENGINEERING (CBCE 14M)

EBC 1205: BUILDING TECHNOLOGY II

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

Question One

a)	Define the following terms as used in fireplace and chimney: (i) Hearth (ii) Jambs (iii) Fire place (iv) Fire back	(5 marks)	
b)	Draw and label a section of a chimney stack	(10 marks)	
c)	State FIVE functional requirements of a chimney	(5 marks)	
Question Two			
a)	Outline FIVE types of paints	(5 marks)	
b)	Explain the following elements of paints: (i) Base (ii) Vehiecle (iii) Pigment (iv)Thinner (v) Prier	(5 marks)	
c)	Explain FIVE characteristic of oil paints	(5 marks)	
d)	Briefly explain process of painting	(5 marks)	
Question Three			
a)	Explain functions of suspended ceiling	(6 marks)	
b)	State THREE types of suspended ceiling	(5 marks)	
c)	Define the term dry linning and give THREE advantages of its use	(5 marks)	
d)	Discuss the following forms of a framed structures: (i) Shed frame (ii) Building frame (iii) Rigid frame	(6 marks)	
Qu	Question Four		
a)	What are the advantages and disadvantages of steel portal frames	(8 marks)	
b)	Outline FIVE advantages of a solid timber portal frame	(5 marks)	
c)	Define the term underpinning	(1 mark)	

d) Explain THREE situations where underpinning is applied (6 marks)
Question Five
a) Sketch a mobile scaffold and show all its members (10 marks)
b) Draw a detailed beam form work (10 marks)