

THE TECHNICAL UNIVERSITY OF MOMBASA

Faculty of Engineering & Technology

DEPARTMENT OF BUILDING & CIVIL ENGINEERING

CERTIFICATE IN BUILDING & CIVIL ENGINEERING (CT II 12M)

EBC 1102: CONSTRUCTION MATERIALS II

SPECIAL/SUPPLEMENTARY EXAMINATION

SERIES: FEBRUARY 2013 **TIME:** 2 HOURS

Instructions to Candidates:

You should have the following for this examination

- Answer Booklet

Maximum marks for each part of a question are as shown This paper consists of TWO printed pages Question One				
a)	Outline FOUR major ingredients of an ordinary glass	(6 marks)		
b)	Outline the following treatment to glass: (i) Annealing (ii) Tempering	(4 marks)		
	State SIX properties of glass Differentiate "wired glass" from "laminated glass". marks)	(6 marks) (4		
Question Two				
a)	With the aid of a sketch, briefly describe the continuous extrusion method of forming	-		
b)	With the aid of sketches, briefly describe the cylinder blowing method of forming she	(10 marks) et glass. (10 marks)		
Question Three				
a)	Differentiate between: (i) Bitumen and tar (ii) Straight run bitumen and cutback bitumen (iii) Pitch and bitumen emulsion	(12 marks)		
b)	State EIGHT general properties of bituminous materials.	(8 marks)		
Question Four				
a)	(i) Briefly describe the TWO major classes of plastics.			
	(ii) Give TWO examples of plastics in the classes described in (a) (i)	(10 marks)		
b)	(i) Name TWO materials added during manufacture of plastics.			
	(ii) State ONE reason why each of addictives in b(i) is added to the plastics.	(4 marks)		
c)	State SIX general properties of plastics.	(6 marks)		
Question Five				
a)	State FOUR reasons of painting.	(4 marks)		
b)	Briefly explain the procedure of painting new woodwork.	(8 marks)		
c)	Briefly describe TWO methods of removing old paint	(4 marks)		

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This paper consists of **FIVE** questions. Answer any **THREE** questions

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d)	State FOUR ingredients in an oil paint	(4 marks)