

TECHNICAL UNIVERSITY OF MOMBASA Faculty of Engineering & Technology

DEPARTMENT OF BUILDING & CIVIL ENGINEERING CERTIFICATE IN BUILDING & CIVI ENGINEERING (CTI 12S)

EBC 1208: CONSTRUCTION MATERIALS II

END OF SEMESTER EXAMINATION SERIES: APRIL 2013 TIME ALLOWED: 2 HOURS

<u>Instructions to Candidates:</u> 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 **Question One**

a)	Define the following terms:								
	(i) Paint(ii) Varnish	(4 marks)							
b)	Explain FOUR reasons of painting.	(8 marks)							
c)	Briefly explain the process of painting new wood work.								
Qu	Question Two								
a)	Define the following terms: (i) Glass (ii) Cullet	(4 marks)							
	Outline FOUR main ingredients used in glass manufacture and state their functions Briefly describe the following treatment to glass: (i) Annealing	. (8 marks)							
d)	(ii) Tempering	(6 marks) (2 marks)							
Qu	Question Three								
a)	Briefly describe the TWO classes of plastics.	(6 marks)							
b)	State SIX properties of plastics	(6 marks)							
c)	With the aid of a sketch, briefly describe the injection moulding method of forming	plastics. (8 marks)							
Qu	lestion Four								
a)	 Differentiate the following: (i) Bitumen and tar (ii) Rock asphalt and lave asphalt (iii) Cot he sh bitumen and straight sure bitumen 	(12							
	(iii) Cut back bitumen and straight run bitumen	(12 marks)							
b)	State FOUR properties of bituminous materials.	(4 marks)							
c)	(i) State the ingredients of mastic asphalt								
	(ii) State THREE uses of mastic asphalt	(4 marks)							

Question Five

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2)	Bridfly	doscribo	tho	following	tunoc	of alace.
aj	Dricity	ucscribe	unc	10110 willig	types	or grass.

	(i) (ii)					
	(iii)	Coloured glass	(9 marks)			
b)	State '	THREE reasons which may cause loss of adhesion of paint in woodwork.	(3 marks)			
d)	State 1	FOUR uses of bituminous materials.	(4 marks)			
e)	Distin	guish between plastics and rubbers.	(4 marks)			