

TECHNICAL UNIVERSITY OF MOMBASA Faculty of Engineering & Technology

DEPARTMENT OF BUILDING & CIVIL ENGINEERING DIPLOMA IN BUILDING & CIVIL ENGINEERING

ECV 2102: CIVIL ENGINEERING MATERIALS II

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 This paper consists of **TWO** printed pages

Question One

a)	Explai (i)	n the following types of plastics giving TWO examples of each: Thermoplastics		
	(ii)	Thermosetting plastics	(8 marks)	
b)	Name and explain FOUR ingredients which are added during the manufacture of plass		tics. (8 marks)	
c)	List F0	OUR defects of paints	(4 marks)	
Question Two				
With the aid of sketches, describe the following methods of manufacturing plastics:				
	(i) (ii)	Injection moulding Extrusion method	(20 marks)	
Question Three				
a)	Descri	be the major constituents of paints.	(12 marks)	
b)	State F	OUR functions of paint	(2 marks)	
c)	• •	t the main ingredients used in the manufacture of glass ate FOUR major uses of glass in construction industry.	(6 marks)	
Question Four				
a)	(i) (ii)	be the following types of paints: Oil paints Emulsion paints Water paints	(9 marks)	
b)	(i) (ii)	the following terms of adhesive: Shelf life Pot life Closed assembly time	(6 marks)	
c)	Descrit	be vulcanization process of manufacturing rubber.	(5 marks)	
Qu	Question Five			
a)	Explai (i) (ii)	n the following processes of manufacturing glass: Blowing Drawing	(8 marks)	
b)	State S	SIX functional requirements of a good mortar	(6 marks)	

- **c)** Describe the procedure of painting the following backgrounds:
 - (i) Plastered wall
 - (ii) Old wood

(6 marks)