

TECHNICAL UNIVERSITY OF MOMBASA

FACULTY OF ENGINEERING AND TECHNOLOGY DEPARTMENT OF ARCHITECTURE & BUILT ENVIRONMENT UNIVERSITY EXAMINATION FOR:

DIPLOMA OF ARCHITECTURE

DIPLOMA OF QUANTITY SURVEYING

EAR 2204: CONSTRUCTION MATERIALS II

SPECIAL/SUPPLEMENTARY EXAMINATION

SERIES: SEPTEMBER 2018

TIME:2HOURS

DATE: Pick Date Sep 2018

Instructions to Candidates

You should have the following for this examination -Answer Booklet, examination pass and student ID
This paper consists of **FIVE** questions. Attemptany THREE questions.

Do not write on the question paper.

Question ONE

(a) Outline the procedure for fixing wall paper. (6 Marks)

(b) Name and describe the THREE ingredients of a Varnish. (9 Marks)

(c) Briefly explain the functions of base as a principal constituent of paint. (5 Marks)

Question TWO

(a) With the aid of a sketch, describe the impact strength test for plastics. (6 Marks)

(b) Briefly describe TWO ways in which moulding of plastics is carried out. (4 Marks)

(c) Describe the following as applied to Rubber:

(i) Plasticization

(ii) Compounding	(5 Marks)	
(d) Outline the FIVE properties of silicone rubber.	(5 Marks)	
Question THREEE		
(a) Briefly describe TWO mechanical properties of glass.	(5 Marks)	
(b) Briefly describe THREE types of special glasses.	(9 Marks)	
(c) Explain TWO classifications of glass based on composition and properties.	(6 Marks)	
Question FOUR		
(a) Describe the following bituminous products;		
(i) Coal tar		
(ii) Pitch		
(iii)Bitumen		
	(9 Marks)	
(b) Briefly explain SIX properties of bitumen.	(6 Marks)	
(c) Briefly describe TWO forms of Asphalt.	(5 Marks)	
Question FIVE		
(a) Briefly explain THREE precautions taken while handling lime.	(6 Marks)	
(b) Briefly describe the following tests carried out on Lime:		
(i) Heat test		
(ii) Hydraulic test		
(6 Mar	(6 Marks)	
(c) Explain FOUR characteristics of sand for mortar.	(4 Marks)	
(d) Explain FOUR precautions taken in the use of mortars.	(4 Marks)	