## NATIONAL UNIVERSITY OF SCIENCE AND TECHNOLOGY

## FACULTY OF THE BUILT ENVIRONMENT

## DEPARTMENT OF ARCHITECTURE

BACHELOR OF ARCHITECTURAL STUDIES (HONOURS) DEGREE BACHELOR OF QUANTITY SURVEYING (HONOURS) DEGREE 2013-2014 ACADEMIC YEAR PART I-SECOND SEMESTER EXAMINATIONS-MAY 2014

AAR 1204 INTRODUCTION TO MATERIALS AND CONSTRUCTION II AAR 1208 INTRODUCTION TO CONSTRUCTION MATERIALS II  Instructions Time: 2 hours Answer All Questions.  Illustrate your answers with sketches where appropriate.							
STION 1							
How wou	ld you prepare the following backgrounds for plastering:						
i.	Smooth brick wall	(3)					
ii.	Textured concrete wall	(3)					
iii.	Earth wall	(3)					
<ul> <li>b. State any 3 advantages and 3 disadvantages of using plasters in construction. (6)</li> <li>c. A client is constructing his residence and requires your advice on the types of pai suitable for the different spaces with special consideration to oil-based and waterpaints. Give reasons for your recommendations.</li> </ul>							
STION 2							
Describe 2 properties of each of the 2 main types of plastics used in construction Give 3 examples from each of the plastics discussed in (a) and their application is construction.  Write brief notes on any 3 types of safety glass used in construction.							
		[25]					
	Exercions For All Quest For I in the second of the second	AAR 1208 INTRODUCTION TO CONSTRUCTION Mactions or All Questions. ate your answers with sketches where appropriate.  STION 1  How would you prepare the following backgrounds for plastering:  i. Smooth brick wall  ii. Textured concrete wall  iii. Earth wall  State any 3 advantages and 3 disadvantages of using plasters in const A client is constructing his residence and requires your advice on the suitable for the different spaces with special consideration to oil-bast paints. Give reasons for your recommendations.  STION 2  Describe 2 properties of each of the 2 main types of plastics used in Give 3 examples from each of the plastics discussed in (a) and their construction.					

QUES'	TION 3								
a.	Sketch a	typical detail of	the following	roofing mate	erials and do a br	rief			
	evaluatio	on of their perform	nance:						
	i.	Asbestos			(5)				
	ii.	Bitumen			(5)				
	iii.	Clay tiles			(5)				
b.	Compare the performance of any 3 materials you have studies that are suitable for								
	sanitary 1	fittings.				(10	0)		
						[2	25]		
						L#	O]		
UES'	TION 4								
a.	With the a	aid of sketches desc	cribe any 5 mar	ket forms of s	steel and their appl	lication ir	1		
	constructi	ion.				(10	(C		
b.	_	t day, many Zimbat esidences:	oweans seem to	opt for ceran	nic tiles as an idea	l floor fin	iish		
	i.	What are the adv	antages and di	sadvantages o	of this?	(6)	)		
	ii.		_	_	be used justifying				
		standpoint.				(9)	)		
						[25	<b>5</b> 1		
						[24	٦]		