

SCHOOL OF ENGINEERING AND TECHNOLOGY DEPARTMENT OF BUILDING AND CIVIL ENGINEERING FIRST YEAR SECOND SEMESTER EXAMINATION FOR

CERTIFICATE IN BUILDING TECHNOLOGY (TVET)

1704/103 BULDING CONSTRUCTION 1

DATE: 18/4/2019

TIME: 8.30-11.30 AM

INSTRUCTIONS

Answer all the five questions

1.	a)	Compare and contrast environmental considerations in relation to a		
		building location	(5 marks)	
		ii) Briefly describe the evolution of the built environment	(5 marks)	
	b)	With well labeled sketches, show the detail of the following types of foundations		
		i. Traditional strip foundation	(5 marks)	
		ii. Wide strip foundation.	(5 marks)	
2.	a)	List four functional requirements of a good foundation	(8 marks)	
	b)	With the aid of neat sketches, differentiate between a brick wall in F	d of neat sketches, differentiate between a brick wall in Flemish and	
		English bonds	(12 marks)	
3.	a)	State five functions of a wall	(10 marks)	
	b)	Explain the following terms as applied to walls:		
		i. Plastering and Rendering	(4 marks)	
		ii. Pointing and jointing	(4 marks)	
	c)	Briefly explain the term "Settlement"	(2 marks)	
4.	a)	List Four Functions of hardcore under a floor slab	(4 marks)	

- b) Make neat sketches of the following types of single roofs (16 marks)
 - i. lean to roof
 - ii. couple roof
 - iii. closed couple roof
 - iv. collar roof
- 5. Make neat well labelled sketches of the following types of doors
 - a) ledged and battened door
 - b) ledged, braced and battened door
 - c) framed, ledged, battened and braced door (20 marks)