

FACULTY OF ENGINEERING &TECHNOLOGY BUILDING AND CIVIL ENGINEERING DEPARTMENT

END OF SEMESTER EXAMINATION

DIPLOMA BUILDING AND CIVIL ENGINEERING

EBC 2210: BUILDING TECHNOLOGY III

MAY 2016 SERIES

This paper consist of FIVE questions answer only THREE questions;

Q1	(a)	Define foundation.	(2marks)
	(b)	Sketch the following;	
	I. II.	Pad foundation steel grillage foundation	(10marks)
	(c)	Explain the procedure of casting a pile in situ.	(8marks)
Q2	(a)	Define the term stair.	(2marks)
	(b)	With aid of a diagram explain the following types of stairs;	
	1. 11. 111.	cranked slab stair straight flight with landing precast concrete stair	(18mrks)
Q3	(a)	State seven principles of a good drainage system	(7marks)
	(b)	Explain three types of drainage	(6 marks)
	(c)	Outline FOUR points at which manholes should be positioned	(4 marks)
	(d)	Mention Three methods of testing drainage	(3marks)

Q 4	(a)	With aid of a diagram explain the three methods of dewatering	(9marks)
	(b)	Outline procedure of underpinning using traditional method.	(7marks)
	(c)	Draw and label a diagram of a manhole	(4marks)
Q5	(a)	State situations that require shoring	(8marks)
	(b)	With the aid of a sketch, explain the following types of shoring;	
		I. raking shore	
		II. flying shore	(12marks)