

HPH 208: BUILDING MATERIALS

DATE: 15/12/2021 INSTRUCTIONS:

TIME: 8.30-10.30 AM

This paper consists of two sections A and B

SECTION A

This section has **ONE** question The question is **COMPULSORY** The question is 30 marks.

QUESTION ONE (30 MARKS)

(a)	Define the following terms as used in building materials			
	i.	BOQ		
	ii.	Egress		
	iii.	Joist		
	iv.	Skirting		
	v.	Zoning		
(b)	Explain the causes for the foundation failures (5 marks)			
(c)	Write brief notes on the characteristics of soils(5 marks)			
(d)	Explain principal factors determining the depth of foundation of a building (5 marks)			
(e)	Describe the structural components of a building. (5 marks)			
(f)	Explain the purpose of foundations in a building (5 marks)			

SECTION B

This section has **FOUR (4)** questions Answer **TWO (2)** questions Each question is 20 marks

QUE	STION	TWO (20 MARKS)	
(a)	Expla	(5 marks)	
	(i)	Curing of concrete	
	(ii)	Uses of steel	
(b)	Desci	ibe the health and safety requirements in building construction	(15 marks)
QUE	STION	THREE (20 MARKS)	
(a)	Expla	in the geological classification of stones	(5 marks)
(b)	Desc	ribe factors affecting building technology	(15 marks)
QUE	STION	FOUR (20 MARKS)	
(a)	Discu	iss qualities of a good brick	(5 marks)
(b)	Expla	in why housing is an important determinant of health	(15 marks)
QUE	STION	FIVE (20 MARKS)	
(a)	Expla	in the importance of compaction of concrete	(5 marks)
(b)	Discu	ss design principles of modern houses	(15 marks)