

THE TECHICAL UNIVERSITY OF MOMBASA Faculty of Applied & Health Sciences

DEPARTMENT OF ENVIRONMENTAL HEALTH **DIPOMA IN ENVIRONMENTAL HEALTH (DEH 12J)**

EBC 2102: INTRODUCTION TO BUILDING TECHNOLOGY

SPECIAL/SUPPLEMENTARY EXAMINATION

SERIES: FEBRUARY 2013 **TIME:** 2 HOURS

Instructions to Candidates:

You should have the following for this examination

- Answer Booklet

This paper consists of FIVE questions. Answer any THREE questions Maximum marks for each part of a question are as shown This paper consists of TWO printed pages Question One				
a)	State FOUR reasons for carrying out site investigations in the design and construction of buildings:			
b)	Briefly (i) (ii) (iii) (iv) (v) (vi)	describe the following preliminary site works: Preliminary surveying Fencing Site security Storage facilities Site offices Site access	(8 marks) (12 marks)	
Question Two				
	_	describe the FIVE common sub soil conditions encountered in the excavation	(10 marks)	
		TIVE functional requirements of foundations in buildings.	(10 marks)	
Question Three				
a)	With tl	ne aid of a sketch, describe the construction elements of a solid ground floor.	(12 marks)	
b)	Briefly	describe the FOUR forms of wall construction.	(8 marks)	
Question Four				
a)	Define (i) (ii) (iii) (iv) (v) (vi) (vii)	the following terms used in the design of a staircase: Stairwell Travel Nosing Riser Flight String Balusters		
	(viii)	Pitch	(8 marks)	
b)	With the (i) (ii) (iii) (iv)	ne aid of line diagrams, describe the following types of small span pitched roof Lean-to-roof Couple roof Closed couple roof Colloor roof	construction: (12 marks)	
Qu	Question Five			
a)	With tl	ne aid of sketches, describe FOUR types of windows.	(8 marks)	

b) Briefly describe the general procedure of point application to a plastered background. **(12 marks)**