

## 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		
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			
a)	Briefly	describe the FIVE common sub soil conditions encountered in the excavation	n of foundations. (10 marks)
b)	State F	TVE functional requirements of foundations in buildings.	(10 marks)
Question Three			
a)	With th	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)	(i) (ii) (iii) (iv) (v) (vi) (vii)	the following terms used in the design of a staircase: Stairwell Travel Nosing Riser Flight String Balusters	(0. 1.)
	(viii)	Pitch	(8 marks)
b)	With th (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)
Question Five			
۵)	With th	as aid of skatches, describe FOUR types of windows	(8 marks)

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