



THE MOMBASA POLYTECHNIC UNIVERSITY COLLEGE

(A Constituent College of Jkuat)

Faculty of Engineering and Technology

DEPARTMENT OF BUILDING AND CIVIL ENGINEERING

CERTIFICATE IN BUILDING CONSTRUCTION

EBC 1107: BUILDING TECHNOLOGY I

END OF SEMESTER EXAMINATION

SERIES: AUGUST/SEPTEMBER 2011

TIME: 2 HOURS

Instructions to Candidates:

You should have the following for this examination

- Answer booklet
- Scientific calculator

This paper consists of **FIVE** questions Answer question **ONE** and any other **TWO** questions Maximum marks for each part of a question are as shown This paper consists of **TWO** printed pages

SECTION A (COMPULSORY)

Question 1

a)	Explain the FOUR processes to be followed when constructing a building	(10 marks)	
b)	Name the personnel involved in the building industry	(5 marks)	
c)	Sketch and label the parts of a profile board	(10 marks)	
d)	Sketch a plan of a rectangular building and indicate the position of profile boards	(5 marks)	
SECTION B (Answer any TWO questions from this section)			
Question 2			
a)	Explain the role of each of the following		
	 (i) Architect (ii) Structural engineer (iii) Quantity surveyor 	(15 marks)	
b)	Explain the importance of site investigation	(5 marks)	
Question 3			
a)	Explain the process of setting out a rectangular building by using the 3:4:5 method	(10 marks)	
b)	(i) Name SIX types of foundations		
	(ii) With the aid of sketches, describe the pad foundation	(10 marks)	
Question 4			
a)	Sketch and label the parts of a solid ground floor	(15 marks)	
b)	b) Explain the use of the following		
	(i) Hardcore(ii) Blinding	(5 marks)	
Question 5			
a)	Explain the history of building	(5 marks)	
b)	Explain the factors that influence the choice of a floor finish	(10 marks)	
c)	Name FIVE building materials used in your home area	(5 marks)	