



# THE MOMBASA POLYTECHNIC UNIVERSITY COLLEGE

(A Constituent College of Jkuat)

Faculty of Engineering and Technology

#### DEPARTMENT OF BUILDING AND CIVIL ENGINEERING

# DIPLOMA IN BUILDING & CIVIL ENGINEERING DIPLOMA IN ARCHITECTURE

EBC 2208: BUILDING TECHNOLOGY II

**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**

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	(i) Curtain walling (ii) Curing (iii) Cladding	(6 marks)
b)	Define the following:	
a)	With the aid of sketches, explain the construction of a reinforced concrete column to one metre above solid ground floor.	to a height of (14 marks)
Qι	uestion 5	
c)	Sketch a typical splice detail of a Pcc portal frame	(10 marks)
b)	Outline the working of Fire place	(6 marks)
a)	State FOUR painting techniques	(4 marks)
Qι	uestion 4	
c)	State FOUR areas where pre-cast units may be used in construction	(4 marks)
b)	Sketch and label the parts of a flint return rubble wall	(6 marks)
a)	With the aid of sketch, explain the self centering upper floor	(10 marks)
Qι	uestion 3	
c)	State FOUR advantages of framed structures	(4 marks)
b)	Sketch and label the parts of Bloom base	(6 marks)
a)	Sketch and label the parts of a formwork to a beam	(10 marks)
Qι	uestion 2	
SE	ECTION B (Answer any TWO questions from this section)	
c)	State FOUR causes of failure of a chimney	(4 marks)
b)	With the aid of a sketch, explain the construction of a cavity wall	(10 marks)
	<ul><li>(i) Architrave</li><li>(ii) Skirting</li></ul>	
a)	With the aid of sketches, explain the following types of carpenter's second fixing	