



## 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

INSTITUTIONAL BASED PROGRAMME

EBC 2208: BUILDING TECHNOLOGY II

**END OF SEMESTER EXAMINATION** 

**SERIES: DECEMBER 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 (COMPULSORY)** from **SECTION A** and any other **TWO** questions from **SECTION B** Maximum marks for each part of a question are clearly shown

This paper consists of **TWO** printed pages

## SECTION A (COMPULSORY)

<ul><li>Question 1 (30 marks)</li><li>a) With the aid of sketches, explain the following types of carpenter's second fixing</li><li>(i) Architrave</li></ul>		
	<ul><li>(i) Architrave</li><li>(ii) Skirting</li></ul>	
	(iii) Door lining	(16 marks)
b)	With the aid of a sketch, explain the construction of a Cavity wall	(6 marks)
c)	With the aid of a sketch, outline the working of a fireplace	(8 marks)
SECTION B (Answer any TWO questions from this section)		
Question 2 (20 marks)		
a)	With the aid of a sketch, outline the fixing of a door panel to a door lining	(10 marks)
b)	Sketch and label the parts of a Bloom base	(6 marks)
c)	State <b>FOUR</b> advantages of Pre cast reinforced concrete units	(4 marks)
Question 3 (20 marks)		
Qt	icston 5 (20 marks)	
a)	With the aid of a sketch, explain the non self centering upper floor	(10 marks)
b)	Sketch and label the parts of rubble polygonal wall	(6 marks)
c)	Sketch a typical splice detail of a Pre cast concrete portal frame	(10 marks)
Question 4 (20 marks)		
a)	State <b>FOUR</b> painting techniques	(4 marks)
b)	Explain the importance of soil study in Building technology	(6 marks)
c)	Sketch a typical splice detail of a Pre cast concrete portal frame	(10 marks)
Question 5 (20 marks)		
a) With the aid of sketches, explain the construction of a pad foundation in framed structures		
u)	with the the of sketches, explain the construction of a pad foundation in framed struc-	(12 marks)
b)	Define the following:  (i) Masonwayall	
	<ul><li>(i) Masonry wall</li><li>(ii) Curing</li></ul>	
	(iii) Reinforced concrete	
	(iv) Workability of concrete	(8 marks)