



## THE MOMBASA POLYTECHNIC UNIVERSITY COLLEGE

(A Constituent College of JKUAT)

Faculty of Engineering and Technology

DEPARTMENT OF BUILDING AND CIVIL ENGINEERING

CERTIFICATE IN BUILDING TECHNOLOGY I

EBC 1108: 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)

## Question 1

a) Sketch and label the parts of a timber stair	(10 marks)
b) Sketch and label the parts of a dogleg timber stair	(5 marks)
<ul> <li>c) With the aid of sketches, outline the construction of:</li> <li>(i) Panel door</li> <li>(ii) Ledged and battened door</li> </ul>	(15 marks)
SECTION B (Answer any TWO questions from this section)	
Question 2	
a) Explain the importance of soil study in building technology	(6 marks)
b) With the aid of sketches, differentiate Door frame from Door lining	(10 marks)
c) Sketch the following types of hinges (i) Butt (ii) Parliamentary	(4 marks)
Question 3	
<ul><li>Question 3</li><li>a) State FOUR functional requirement of a window</li></ul>	(4 marks)
	(4 marks) (16 marks)
a) State <b>FOUR</b> functional requirement of a window	,
<ul><li>a) State <b>FOUR</b> functional requirement of a window</li><li>b) Sketch and label <b>FOUR</b> types of roofs</li></ul>	,
<ul><li>a) State FOUR functional requirement of a window</li><li>b) Sketch and label FOUR types of roofs</li><li>Question 4</li></ul>	(16 marks)
<ul> <li>a) State FOUR functional requirement of a window</li> <li>b) Sketch and label FOUR types of roofs</li> <li>Question 4</li> <li>a) Sketch and label the parts of Dependent scaffolding</li> </ul>	(16 marks) (8 marks)
<ul> <li>a) State FOUR functional requirement of a window</li> <li>b) Sketch and label FOUR types of roofs</li> <li>Question 4</li> <li>a) Sketch and label the parts of Dependent scaffolding</li> <li>b) Explain the importance of safety in a construction site</li> </ul>	(16 marks) (8 marks) (8 marks)
<ul> <li>a) State FOUR functional requirement of a window</li> <li>b) Sketch and label FOUR types of roofs</li> <li>Question 4</li> <li>a) Sketch and label the parts of Dependent scaffolding</li> <li>b) Explain the importance of safety in a construction site</li> <li>c) Describe the indirect cold water system</li> </ul>	(16 marks) (8 marks) (8 marks)