



TECHICAL UNIVERSITY OF MOMBASA  
**Faculty of Engineering &  
Technology**

DEPARTMENT OF BUILDING & CIVIL ENGINEERING  
**CERTIFICATE IN BUILDING & CIVIL ENGINEERING PART II (CT II 12S)**

EBC 1108: BUILDING TECHNOLOGY II

**SPECIAL/SUPPLEMENTARY EXAMINATION**

**SERIES: FEBRUARY 2013**

**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 any **THREE** questions

Maximum marks for each part of a question are as shown

This paper consists of **TWO** printed pages

**Question One**

- a) Sketch and label **FOUR** types of Pitched Roof. **(10 marks)**
- b) Sketch **FIVE** factors to consider when selecting a type of roof covering. **(5 marks)**
- c) Sketch and label the parts of dependent scaffolding. **(5 marks)**

**Question Two**

- a) Sketch and label the parts of a timber stair. **(5 marks)**
- b) Sketch the following:
  - (i) Dogleg stair
  - (ii) Straight flight stair
  - (iii) Winder
  - (iv) Stair well**(10 marks)**
- c) Outline the procedure of designing a timber stair. **(5 marks)**

**Question Three**

- a) Sketch and label the following:
  - (i) Door opening
  - (ii) Panel door**(10 marks)**
- b) Outline the procedure of fixing a door frame to a wall opening. **(10 marks)**

**Question Four**

- a) Sketch and label the parts of a domestic indirect cold water supply system. **(10 marks)**
- b) Sketch and label **FOUR** types of windows. **(10 marks)**

**Question Five**

- a) Sketch and label a formwork to a Lintel **(10 marks)**
- b) Sketch the following:
  - (i) Parliamentary hinge
  - (ii) Butt hinge
  - (iii) Tee hinge
  - (iv) Strap hinge**(5 marks)**
- c) Sketch a door schedule and explain its importance. **(5 marks)**

