



THE MOMBASA POLYTECHNIC UNIVERSITY COLLEGE

(A Constituent College of JKUAT)

(A Centre of Excellence)

Faculty of Engineering & Technology

DEPARTMENT OF BUILDING & CIVIL ENGINEERING

CERTIFICATE IN BUILDING AND CIVIL ENGINEERING

EBC 1108: BUILDING TECHNOLOGY II

END OF SEMESTER EXAMINATION

SERIES: AUGUST 2012

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 **THREE** questions
Maximum marks for each part of a question are as shown
This paper consists of **TWO** printed pages

Question One (20 marks)

- a) Sketch and label the parts of a timber stair. (5 marks)
- b) Sketch the following:
- i) Dog leg stair
 - ii) Spine wall
 - iii) Winders
 - iv) Nosing (10 marks)
- c) State functional requirement of a stair. (5 marks)

Question Two (20 marks)

- a) Sketch and label the parts of a panel door. (10 marks)
- b) With the aid of a sketch, differentiate door frame from door lining. (6 marks)
- c) State **FOUR** advantages of Pitched roof over flat roof. (4 marks)

Question Three (20 marks)

- a) Sketch and label **FOUR** types of roofs. (10 marks)
- b) State **FIVE** factor to consider when selecting a type of roof covering. (5 marks)
- c) Describe the following types of roof covering.
- i) Corrugated iron sheet
 - ii) Asbestos cement sheet. (5 marks)

Question Four (20 marks)

- a) Sketch and label the parts of dependent scaffolding. (10 marks)
- b) Sketch the **FIVE** types of hinges. (10 marks)

Question Five (20 marks)

- a) With the aid of a sketch, explain why ledge, battened and braced doors are becoming popular. (10 marks)
- b) Explain why the college should continue training building technologists. (10 marks)