



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

DEPARTMENT OF BUILDING & CIVIL ENGINEERING
DIPLOMA IN BUILDING & CIVIL ENGINEERING (DBCE)

EBC 2104: WORKSHOP TECHNOLOGY & PRACTICE II

END OF SEMESTER EXAMINATION

SERIES: DECEMBER 2014
TIME ALLOWED: 2 HOURS

Instructions to Candidates:

You should have the following for this examination

- *Answer Booklet*

This paper consists of **FIVE** questions. Answer any **THREE** questions of the **FIVE** questions

All questions carry equal marks

Maximum marks for each part of a question are as shown

Use neat, large and well labeled diagrams where required
This paper consists of **TWO** printed pages

Question One

- a) Briefly differentiate the terms masonry. **(2 marks)**
- b) What are the **FOUR** purposes of a bond in a brick wall? **(8 marks)**
- c) State **FIVE** requirements of a good mortar. **(10 marks)**

Question Two

- a) With the aid of sketches, show two types of each of the following:
 - (i) Widening joints
 - (ii) Framing joints
 - (iii) Lengthening joints

Question Three

- a) Show with sketches the difference between an independent scaffold and putlog scaffold. **(10 marks)**
- b) State the uses of the following fittings used in scaffolding:
 - (i) Reveal pin
 - (ii) Base plate
 - (iii) Swivel coupler
 - (iv) Putlog coupler **(10 marks)**

Question Four

- a) Show with sketches and name **THREE** types of nails and screws used in woodwork. **(12 marks)**
- b) Name **FOUR** methods of nailing. **(8 marks)**

Question Five

- a) With the aid of sketches, show the following bonds in **FOUR** course: **(12 marks)**
 - (i) Header
 - (ii) Stretcher
 - (iii) English
 - (iv) Flemish
- b) Show with sketches the difference between a brick trowel and steel float **(8 marks)**