



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

DEPARTMENT OF BUILDING & CIVIL ENGINEERING
CERTIFICATE IN BUILDING & CIVIL ENGINEERING (CBCE)

EBC 1103: WORKSHOP TECHNOLOGY II

END OF SEMESTER EXAMINATION

SERIES: APRIL 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
This paper consists of **TWO** printed pages

Question One

- a) With the aid of sketches differentiate between an independent scaffold and a putlog scaffold. **(10 marks)**
- b) State the uses of the following fittings used in scaffolding:
- (i) Reveal pin
 - (ii) Base pin
 - (iii) Base plate
 - (iv) Suvivel coupler
 - (v) Double coupler
 - (vi) Putlog coupler **(10 marks)**

Question Two

- a) Show with sketches FIVE types of lengthening joints used in woodwork. **(10 marks)**
- b) Name FIVE types of adhesives used in woodwork. **(10 marks)**

Question Three

- a) State the SIX steps you would follow when preparing timber by hand using a jack plane. **(12 marks)**
- b) Name FOUR advantages and disadvantages of block work over brickwork. **(8 marks)**

Question Four

- a) With the aid of sketches, differentiate between a steel float and a wooden float. **(10 marks)**
- b) Show with sketches the difference between a dovetail halving and cross halving joints. **(10 marks)**

Question Five

- a) What are the FOUR purposes of a bond in brickwork? **(8 marks)**
- b) With the aid of sketches, differentiate between a marking gauge and a cutting gauge. **(12 marks)**