



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

DEPARTMENT OF BUILDING & CIVIL ENGINEERING
CERTIFICATE IN BUILDING CONSTRUCTION (CIT)

EBC 1205: WORKSHOP TECHNOLOGY II

END OF SEMESTER EXAMINATION

SERIES: APRIL 2013

TIME ALLOWED: 2 HOURS

Instructions to Candidates:

You should have the following for this examination

- *Answer Booklet*
- *Scientific Calculator*

This paper consists of **FOUR** 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) (i) Name **THREE** types of backsaws and handsaws used in carpentry and joinery works. **(6 marks)**
(ii) Name **TWO** types of softwoods and hardwoods stating their uses. **(4 marks)**
- b) (i) Name **FOUR** power tools that may be used by a plumber. **(4 marks)**
(ii) State the normal defects which are likely to be found on the following tools; cold chisel, Hammer and file. **(6 marks)**

Question Two

- a) Name **THREE** types of materials used in the manufacture of plumbing pipes. **(3 marks)**
- b) Name **THREE** types of joints used in pipe work. **(3 marks)**
- c) State the uses of the following tools; Reamer, Mallet, Hacksaw and Auger. **(4 marks)**
- d) Sketch each of the above tools. **(10 marks)**

Question Three

- a) Name and state the uses of 5 measuring and marking out tools used in woodworking. **(5 marks)**
- b) State **SIX** steps you would follow when preparing timber by hand using tools. **(12 marks)**
- c) Name **THREE** bench planes and state their uses. **(3 marks)**

Question Four

- a) With the aid of sketches, show **TWO** types of the following:
(i) Widening joints
(ii) Framing joints
(iii) Lengthening joints **(12 marks)**
- b) State **FOUR** areas where sheet metal may be used in a building. **(8 marks)**