

TECHNICAL UNIVERSITY OF MOMBASA

Faculty of Engineering &

Technology

DEPARTMENT OF BUILDING & CIVIL ENGINEERING

CERTIFICATE IN BUILDING & CIVL ENGINEERING (CBCE)

EBC 1101: WORKSHOP TECHNOLOGY I

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) State the use of each of the following tools:
 - (i) Reamer
 - (ii) Diestock
 - (iii) Mallet
 - (iv) Hacksaw(10 marks)(v) Mandril(10 marks)
- b) Name FOUR examples of power tools used in plumbing.
- c) List typical examples of defects that are usually found on the following tools:
 - (i) Cold chisel
 (ii) Hammer
 (iii) File
 (6 marks)

Question Two

- a) List the names of FIVE joints which may be used in jointing pipes. (10 marks)
- b) Sketch a mallet and state where it may be used. Name THREE types in common use. (10 marks)

Question Three

- a) Briefly describe FOUR sources of drinking water supply in common use. (12 marks)
- **b)** Name THREE types of taps used in plumbing and state where each may be used. **(8 marks)**

Question Four

- a) State FOUR uses of sheet metal in a building. (8 marks)
- b) Name FOUR water heating appliances in a building. (12 marks)

Question Five

Sketch the following fittings used in pipe work:

- (i) Return Bend
- (ii) Reducing socket
- (iii) Hexagonal nipple
- (iv) Male and female elbow
- (v) Unequal tee

(20 marks)

(4 marks)