

## TECHNICAL UNIVERSITY OF MOMBASA

## Faculty of Engineering & Technology

DEPARTMENT OF BUILDING & CIVIL ENGINEERING

CERTIFICATE IN BUILDING & CIVIL ENGINEERING (CBCE)

EBC 1101: WORKSHOP TECHNOLOGY I

END OF SEMESTER EXAMINATION SERIES: AUGUST 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 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.

Question One		
Bri	iefly describe FOUR sources of drinking water supply in common use.	(20 marks)
Question Two		
a)	State the uses of the following tools:  (i) Hacksaw (ii) Reamer (iii) Diestock (iv) Pipe wrench (v) Wheel cutter	(10 marks)
b)	(i) State FOUR areas where sheet metal may be used in a building.	(8 marks)
	(ii) Name TWO types of joints that may be used in pipework	(2 marks)
Question Three		
a)	Sketch the following fittings in pipe work:  (i) Return bend (ii) Female and male elbow (iii) Hexagonal nipple (iv) Reducing socket	(10 marks)
b)	Sketch a mallet and state TWO areas where it may be used. Name THREE types in co	ommon use. (10 marks)
Question Four		
a)	Name FIVE types of materials which may be used in the manufacture of pipes.	(10 marks)
b)	Give the names of FIVE joints usually used in jointing pipes	(10 marks)
Qu	iestion Five	
a)	State where each of the following would be used: (i) Bid tap (ii) Pillar tap (iii) Gate valve	(12 marks)

**b)** Give TWO examples of the following metals:

(i) Ferrous(ii) Non ferrous

(8 marks)