

TECHNICAL UNIVERSITY OF MOMBASA

Faculty of Engineering & Technology

DEPARTMENT OF BUILDING & CIVIL ENGINEERING

CERTIFICATE IN BUILDING & CIVIL ENGINEERING (CTI 13S)

EBC 1101: WORKSHOP TECHNOLOGY & PRACTICE I

SPECIAL/SUPPLEMENTARY EXAMINATION

SERIES: JULY 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

Maximum marks for each part of a question are as shown This paper consists of **TWO** printed pages

Question One

a)	State the use of the following tools: (i) Pipewrench (ii) Hacksaw (iii) Diestock	
	(iv) Mandril(v) Reamer	(10 marks)
b)	Name FIVE types of materials used in the manufacture of pipes.	(10 marks)
Qι	nestion Two	
a)	Name FOUR machines that are used in plumbing works.	(12 marks)
b)	State FOUR sources of drinking water.	(8 marks)
Qι	nestion Three	
a)	State FOUR areas where sheet metal may be used in a building.	(8 marks)
b)	Name FOUR sources of energy used for heating water in a building.	(12 marks)
Qι	nestion Four	
a)	(i) Bid tap (ii) Pillar tap	
	(iii) Gale valve	(12 marks)
b)	Name TWO ferrous and non-ferrous metals used in plumbing.	(8 marks)
Qı	nestion Five	
a)	Name FOUR types of joints used in pipework.	(8 marks)
·	Sketch the following pipe fittings: (i) Hexagonal nipple (ii) Return bend (iii) Reduced socket (iv) Unequal tee	(12 marks)