



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

DEPARTMENT OF BUILDING & CIVIL ENGINEERING
DIPLOMA IN BUILDING & CIVIL ENGINEERING (DBCE)

EBC 2101: WORKSHOP TECHNOLOGY I

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) State the uses of the following tools:
- (i) Reamer
 - (ii) Hacksaw
 - (iii) Diestock
 - (iv) Pipe wrench
 - (v) Wheel cutter
- (10 marks)**
- b) (i) State FOUR areas where sheet metal may be used in building. **(8 marks)**
(ii) Name TWO types of joints that may be used in steel pipework. **(2 marks)**

Question Two

- a) Name FIVE types of materials used in the manufacture of pipes. **(10 marks)**
- b) With the aid of sketches, show the following types of clips used when fixing pipes.
- (i) Single spacing clip
 - (ii) Double spacing clip
- (10 marks)**

Question Three

- a) Sketch the following fittings used in pipework. **(6 marks)**
- (i) Return bend
 - (ii) Female and male elbow
 - (iii) Hexagonal nipple
- b) State the disadvantages of cutting pipes with a wheel cutter. **(4 marks)**
- c) Sketch a mallet and state TWO areas where it may be used. Name THREE types in common use. **(10 marks)**

Question Four

State THREE methods that may be used when jointing pipes and name any THREE supporting fittings. **(20 marks)**

Question Five

Briefly describe THREE sources of drinking water supply in common use. **(20 marks)**