



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

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

EBC 2101: WORKSHOP TECHNOLOGY & PRACTICE 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) Sketch a mallet and state where it may be used. Name **THREE** types in common use. **(8 marks)**
- b) Sketch the following fittings used in pipe work:
(i) Hexagonal nipple
(ii) Return bend
(iii) Reducing socket **(12 marks)**

Question Two

- a) Name **THREE** types of power tools used in plumbing. **(12 marks)**
- b) Name **FOUR** sources of drinking water supply in common use. **(8 marks)**

Question Three

- a) Name **FIVE** types of materials used in the manufacture of pipes. **(10 marks)**
- b) Briefly differentiate between a tool and equipment giving **TWO** examples of each. **(10 marks)**

Question Four

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

Question Five

- a) State where each of the following fittings may be used in a building: **(12 marks)**
(i) Bib tap
(ii) Pillar tap
(iii) Gate valve
- b) Give **TWO** examples of the following:
(i) Ferrous metal
(ii) Non ferrous metal **(8 marks)**