

TECHNICAL UNIVERSITY OF MOMBASA

Faculty of Engineering & Technology

DEPARTMENT OF BUILDING & CIVIL ENGINEERING

DIPLOMA IN BUILDING & CIVIL ENGINEERING

EBC 2101: WORKSHOP TECHNOLOGY & PRACTICE I

END OF SEMESTER EXAMINATION SERIES: APRIL 2015 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 Maximum marks for each part of a question are as shown Use neat, large and well labeled diagrams where required

Question One

Sketch the following tools and state their uses	:
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- (i) Hacksaw
- (ii) Rasp
- (iii) File
- (iv)Mallet
- (v) Reamer (20 marks)

Question Two

- a) Name FOUR sources of water in common use (8 marks)
- **b)** Name TWO methods of water upply in domestic buildings (2 marks)
- c) Sketch TWO types of hacksaws in common use (10 marks)

Question Three

- a) Sketch the following pipe fittings:
 - (i) Hexagonal nipple
 - (ii) Return bend
 - (iii) Female and male elbow (6 marks)
- **b)** State FOUR areas where sheet metal may be used in a building **(8 marks)**
- c) (i) Name THREE types of materials used in the manufacture of pipes (3 marks)
 - (ii) Name THREE types of joints used in pipework (3 marks)

Question Four

- a) List the names of FIVE fittings that may be used in pipework (10 marks)
- **b)** State the use of each of the following tools used in plumbing:
 - (i) Mallet
 - (ii) Diestock
 - (iii) Pipe wrench
 - (iv)Reamer
 - (v) Auger (10 marks)

Question Five

- **a)** List typical examples of defects that are usually found on the following tools: **(6 marks)**
 - (i) File
 - (ii) Hammer
 - (iii) Cold chisel

b) State FOUR examples of plumbing tools generally classified as power tools	(4 marks)
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c) Name FIVE bench equipments and state the use of each (10 marks)