



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

DEPARTMENT OF BUILDING & CIVIL ENGINEERING  
**CERTIFICATE IN BUILDING & CIVIL ENGINEERING (CBCE 12S)**

EBC 1205: WORKSHOP TECHNOLOGY II

**SPECIAL/SUPPLEMENTARY EXAMINATION**

**SERIES: OCTOBER 2013**

**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 **THREE** printed pages

### Question One

- a) Name **TWO** of each of the following tools:-
- (i) Cramping
  - (ii) Driving
  - (iii) Shaving
- (6 marks)**
- b) With the aid of sketches, differentiate between a chamfer and rebate **(4 marks)**
- c) (i) Briefly differentiate between carpentry and joinery. **(4 marks)**
- (ii) Sketch and state the uses of the following tools a cutting gauge and a marking gauge. **(6 marks)**
- d) (i) Name **FOUR** power hand tools used in plumbing **(4 marks)**
- (ii) Sketch and name the tool you would use to remove the burr from the inside of a cut pipe **(6 marks)**

### Question Two

- a) Differentiate between a gauge and a gauge used in wood work **(2 marks)**
- b) Sketch and state the difference between a tang and a tongue **(8 marks)**
- c) Name **TWO** hardwoods and softwoods stating their uses **(4 marks)**
- d) Name **THREE** curve cutting saws used in wood work **(3 marks)**

### Question Three

- a) Sketch the following fittings used in pipe work;
- (i) Female and male elbow
  - (ii) Return bend
  - (iii) Hexagonal nipple
- (6 marks)**
- b) Name **THREE** types of joints used in pipe work **(3 marks)**
- c) State the disadvantages of cutting pipes with wheel cutter **(4 marks)**