



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

DEPARTMENT OF BUILDING & CIVIL ENGINEERING
**DIPLOMA IN BUILDING & CIVIL ENGINEERING (DBC 12S)
DIPLOMA IN ARCHITECTURE (DA 12S)**

EBC 2103: WORKSHOP TECHNOLOGY II

END OF SEMESTER EXAMINATION

SERIES: APRIL 2013

TIME ALLOWED: 2 HOURS

Instructions to Candidates:

You should have the following for this examination

- *Answer Booklet*
- *Scientific Calculator*

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) Define the following:

(i) Sewer

(ii) Sewage

(iii) Sewerage system

(iv) Manhole (MH)

(v) Down pipe

(10 marks)

b) Explain the construction of man holes in a sewer line.

(10 marks)

Question Two

a) State **FIVE** requirements of an underground drainage system.

(5 marks)

b) Sketch and label the parts of a soak away

(5 marks)

c) Explain the importance of sheet metal in the construction industry.

(10 marks)

Question Three

a) Outline the steps of making:

(i) Single lock welt

(ii) Double lock welt

(10 marks)

b) Explain the following ways of testing an underground drainage systems:

(i) Water test

(ii) Ball test

(10 marks)

Question Four

a) Outline **FIVE** areas where a plumber may be needed in the construction industry.

(10 marks)

b) Describe gas welding.

(10 marks)

Question Five

a) Sketch and label a domestic direct hot water supply.

(10 marks)

b) With the aid of sketches, explain the welding of **TWO** metal pieces using OXY-acetylene welding.

(10 marks)