



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

DEPARTMENT OF BUILDING & CIVIL ENGINEERING

DIPLOMA IN ARCHITECTURE (DARC 13S)

EBC 2231: WORKSHOP TECHNOLOGY

END OF SEMESTER EXAMINATION

SERIES: AUGUST 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) Name eight wooden tools for sheet metal work and state their use. **(16 marks)**
- b) Name FOUR joints on load pipes **(4 marks)**

Question Two

- a) Outline SEVEN types of safety precautions and give a brief explanation on each. **(14 marks)**
- b) Name SIX types of tools used in load pipe works **(6 marks)**

Question Three

- a) Explain how the service pipe is laid below ground in water supply. **(6 marks)**
- b) Give the THREE disadvantages in indirect system of cold water supply **(6 marks)**
- c) Outline THREE advantages of the direct system of cold water supply. **(6 marks)**
- d) Give THREE methods used in mild steel or wrought iron pipes jointing **(2 marks)**

Question Four

- a) Outline SEVEN points to be observed when designing the direct cylinder system in hot water supply. **(14 marks)**
- b) Explain storage and expansion listern as used in indirect system of hot water supply. **(6 marks)**

Question Five

- a) Define a drain **(2 marks)**
- b) Outline SIX principles of good drainage **(12 marks)**
- c) Outline THREE types of materials used for drains **(6 marks)**