



# **THE MOMBASA POLYTECHNIC UNIVERSITY COLLEGE**

## **Faculty of Engineering**

DEPARTMENT OF BUILDING AND CIVIL ENGINEERING

DIPLOMA IN BUILDING & CIVIL  
DIPLOMA IN ARCHITECTURE  
DIPLOAM IN CONSTRUCTION  
(DBC 10, DA 10, DC 10)

## **WORKSHOP TECHNOLOGY**

FINAL EXAMINATION

**SERIES:** APRIL/MAY 2010

**TIME:** 3 HOURS

### **Instructions to Candidates:**

You should have the following for this examination:

- Answer Booklet

This paper consists of **TWO** sections **A** and **B**.

Answer **FIVE** questions at least **TWO** from each Section.

All questions carry equal marks.

Maximum marks for part of question are as shown.

## SECTION A: CARPENTRY/JOINERY

- Q.1 (a) (i) State **FOUR** factors that may cause accidents in the workshop. (4 marks)
- (ii) Differentiate between a tool and equipment. (4 marks)
- (b) With the aid of sketches describe **THREE** equipments that may be used in a workshop. (15 marks)
- (c) Sketch and state the difference between a tongue and tang. (7 marks)

## SECTION B: MASONRY

- Q.2 (a) Give **THREE** examples of each of the following classes of tools;
- (i) Shaving  
(ii) Abrading  
(iii) Testing (9 marks)
- (b) The following saws are classified as, back, tension, and hand. Name **THREE** examples of each class. (9 marks)
- (c) Name **TWO** wooden bench appliances. (2 marks)
- Q.3 (a) Name and sketch **FOUR** types of nail used in woodwork stating the use of each. (12 marks)
- (b) Name and sketch **FOUR** methods of nailing. (8 marks)
- Q.4 (a) Name **FOUR** types of wood adhesives and state where each would be used. (8 marks)
- (b) Define the following gluing terms;
- (i) Store life  
(ii) Setting time  
(iii) Cramping time  
(iv) Open time (8 marks)
- (c) State the cramping time for an animal glue and P.V.A glue. (4 marks)