



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

DEPARTMENT OF BUILDING & CIVIL ENGINEERING  
**DIPLOMA IN BUILDING & CIVIL ENGINEERING (DBC 13J)**

ECV 2202: CIVIL ENGINEERING DRAWING & CAD

**END OF SEMESTER EXAMINATION**

SERIES: APRIL 2014

**TIME ALLOWED: 2 HOURS**

**Instructions to Candidates:**

You should have the following for this examination

- *A Desktop Computer or Laptop*

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

This paper consists of **TWO** printed pages

### **Question One**

Redraw the roof plan in figure 1 using polar coordinate entry and relative coordinate entry. Begin from absolute point A which has absolute coordinates 70, 200 **(20 marks)**

### **Question Two**

Design and draw a foundation drawing for drawing 1. Include all necessary dimensions **(20 marks)**

### **Question Three**

Draw a well labeled section of a strip footing showing it's details **(20 marks)**

### **Question Four**

Create layers and redraw the drawing shown on drawing 2 create layers for:

- (i) Doors
- (ii) Windows
- (iii) Walls
- (iv) Text
- (v) Roof

**(20 marks)**

### **Question Five**

Define FILLET command. Briefly describe how to call on the fillet command and explain how to fillet lines jointed at end points with a radius of 250. **(20 marks)**