



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

DEPARTMENT OF BUILDING & CIVIL ENGINEERING
CERTIFICATE TECHNICIAN II (CT II 12M)

EBC 1308: COMPUTER AIDED DESIGN & DRAFTING

END OF SEMESTER EXAMINATION
SERIES: APRIL 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) Describe the tools below as used in CAD.

- (i) Tool palettes (1 mark)
- (ii) Pull down menus (1 mark)
- (iii) Edit tool bar (1 mark)
- (iv) Cursor (1 mark)
- (v) Command line (1 mark)

b) Describe how to:

- (i) Inscribe a polygon of 8 sides (5 marks)
- (ii) Draw a triangle any size (5 marks)
- (iii) Trim two overlapping lines (5 marks)
- (iv) To do a rectangular array (5 marks)

c) Describe:

- (i) Absolute co-ordinate (1 mark)
- (ii) Relative co-ordinate (1 mark)
- (iii) Polar co-ordinate (1 mark)

Question Two

Redraw the drawing shown in drawing 1 using layers. Create layers for:

- Doors
- Roof
- Windows
- Wall
- Dimension

Each layer to have its own line type, line weight and line color. (20 marks)

Question Three

a) Having two lines jointed at endpoints as shown in figure 1. Describe how to create:

A chamfer at A5 degrees, with the distance D being 250mm (10 marks)

b) Define Osnap. Briefly describe **THREE** Osnap modes (10 marks)

Question Four

Design and draw a foundation drawing for drawing Z. (20 marks)

Question Five

Draw a detailed section of a Gable roof (20 marks)