



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

DEPARTMENT OF BUILDING & CIVIL ENGINEERING
DIPLOMA IN BUILDING & CIVIL ENGINEERING (DBCE)
ECV 2204: BUILDING & CIVIL ENGINEERING DRAWING & CAD

END OF SEMESTER EXAMINATION
SERIES: AUGUST 2013
TIME ALLOWED: 2 HOURS

Instructions to Candidates:

You should have the following for this examination

- *Answer Booklet*
- *Pocket 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

Using Relative co-ordinate entry, polar co-ordinate entry and beginning from an absolute point which has an absolute co-ordinate A00, 500. Write down the co-ordinate entries of the roof plan in figure Z.

Question Two

a) Describe the commands below and give key stroke commands.

- (i) Dimension
- (ii) Text
- (iii) Layers
- (iv) Object snap
- (v) Scale

(10 marks)

b) The layers dialogue box has a lot of information displayed in columns and rows. What are the columns listed below used for:

- (i) Status
- (ii) Colour
- (iii) Name
- (iv) Line type
- (v) Line weight
- (vi) Lock

(10 marks)

Question Three

Describe how to draw a rectangle of specific size 50, 30 (length on height respectively) using relative coordinates. Describe how to do a rectangular array using the rectangle. (20 marks)

Question Four

What are the differences between:

- Absolute point
- Relative point
- Polar co-ordinate
- Relative co-ordinate
- Absolute co-ordinate
- Relative co-ordinate entry
- Absolute co-ordinate entry
- Polar co-ordinate entry

(20 marks)

Question Five

a) Give advantages of using CAD in creating engineering drawings.

(6 marks)

b) Describe Computer Aided Design and Computer Aided Design and Drafting methods as used in AutoCAD (14 marks)

