

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

SPECIAL/SUPPLEMENTARY EXAMINATION SERIES: OCTOBER 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

a) Describe layers and give it's Keystroke command

(4 marks)

- b) The following are columns in the layers. Dialogue box what are they used for:
 - (i) Linetype
 - (ii) Name
 - (iii) Line weight
 - (iv) On
 - (v) Color
 - (vi) Status

(16 marks)

Question Two

a) Describe how to draw 2 circles of diameter 50 and 20

(10 marks)

b) describe how to do a polar array using the circles

(10 marks)

Question Three

What are the differences between:

- **(i)** Relative coordinate entry
- **(ii)** Polar coordinate entry
- (iii) Absolute coordinate entry
- (iv) Absolute coordinate
- **(v)** Relative coordinate
- (vi) Polar coordinate
- (vii) Absolute paint
- **(viii)** Relative paint

Question Four

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)

Question Five

Using polar co-ordinate entry, relative co-ordinate entry and beginning from an absolute point which has an absolute co-ordinate 400,500 write down the co-ordinate entry of the roof plan in figure1