



## TECHNICAL UNIVERSITY OF MOMBASA

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FACULTY OF ENGINEERING AND TECHNOLOGY  
DEPARTMENT OF BUILDING & CIVIL ENGINEERING

**UNIVERSITY EXAMINATION FOR:**  
DIPLOMA IN IN BUILDING AND CIVL ENGINEERING

EBC 2103 : COMPUTER AIDED DRAWING AND DESIGN

SPECIAL SUPPLEMENTARY EXAMINATION

**SERIES:** SEPT. 2017

**TIME:** 2 HOURS

**DATE:** 16 Sep 2017

**Instructions to Candidates**

You should have the following for this examination

*-Answer Booklet, examination pass and student ID*

*-Drawing instruments.*

This paper consists of **FIVE** questions. Attempt **any THREE** questions.

**Do not write on the question paper**

**Mobile Phones are NOT allowed inside the examination room**

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**QUESTION ONE**

Describe the tools below as used CADD

- AutoCad version number
- Standard tool bar
- Draw tool bar
- Layers toolbar
- Co-ordinate read out
- Command line

**(20 marks)**

**QUESTION TWO**

Using appropriate coordinate entries, write down a follow up of all commands required to enter the points below

- Command: line, begin at point 0, 0. Draw a line to the right at 5000mm next @0,650 then close
- Command: line, begin at point 8, 2.Type @100<45,next @100<275,next@100<315 then close

**(20 marks)**

### **QUESTION THREE**

Describe:

- I. Polar co-ordinates
- II. Absolute co-ordinates
- III. Relative co-ordinates

**(20 marks)**

### **QUESTION FOUR**

Using polygon and line commands describe how to:

- I. Circumscribe a polygon of 8 sides
- II. Draw a rectangle any size
- III. Extend one line to another
- IV. Do a polar array

**(20 marks)**

### **QUESTION FIVE**

Define array command. Describe how to do a rectangular array for a 10 sided polygon.

**(20 marks)**