



**TECHNICAL UNIVERSITY OF MOMBASA**

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FACULTY OF ENGINEERING AND TECHNOLOGY  
DEPARTMENT OF BUILDING & CIVIL ENGINEERING

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

**EBC 2103 : COMPUTER AIDED DRAWING & DESIGN**

**END OF SEMESTER EXAMINATION**

**SERIES: DECEMBER 2016**

**TIME: 2 HOURS**

**DATE: 22 Dec 2016**

**Instructions to Candidates**

You should have the following for this examination

- *Answer Booklet, examination pass and student ID*
- *Drawing instruments.*
- *Laptop or desktop*

This paper consists of five questions.

Attempt any THREE questions.

**Do not write on the question paper.**

### QUESTION ONE

Describe the tools below as used CADD

- a. Autocad version number
- b. Standard tool bar
- c. Draw tool bar
- d. Layers toolbar
- e. Co-ordinate read out
- f. Command line

**(20 marks)**

### QUESTION TWO

Create layers as listed below and design a 1 bedroom self-contained bungalow

- Doors
- Windows
- Walls
- Text
- Roof

Each layer to have its own color, line weight and line type

**(20 marks)**

### QUESTION THREE

Using line illustration, describe how to:

Having two lines jointed at end points as shown in figure 1, describe how to create a fillet with its radius R being 200mm

Define layers. Define line weight and briefly describe how to set line weight

**(20 marks)**

### QUESTION FOUR

Describe:

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

**(20 marks)**

### QUESTION FIVE

Draw and design a detailed section through a roof

**(20 marks)**

# Drawing 1

