



## **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:** APRIL 2021

**TIME:** 2 HOURS

**DATE:** Pick Date Apr 2021

**INSTRUCTIONS TO CANDIDATES:**

You should have the following for this examination

- Answer booklet
- Laptop or desktop computer

This paper consists of FIVE questions. Attempt any THREE questions

Maximum marks for each part of a question are shown

This paper consists of THREE printed page

### 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

Describe how to:

- a. Mirror an object but not deleting the source object
- b. Chamfer at a distance of 200mm
- c. Draw a rectangle of any size
- d. Draw a circle by specifying the circle diameter

**(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:

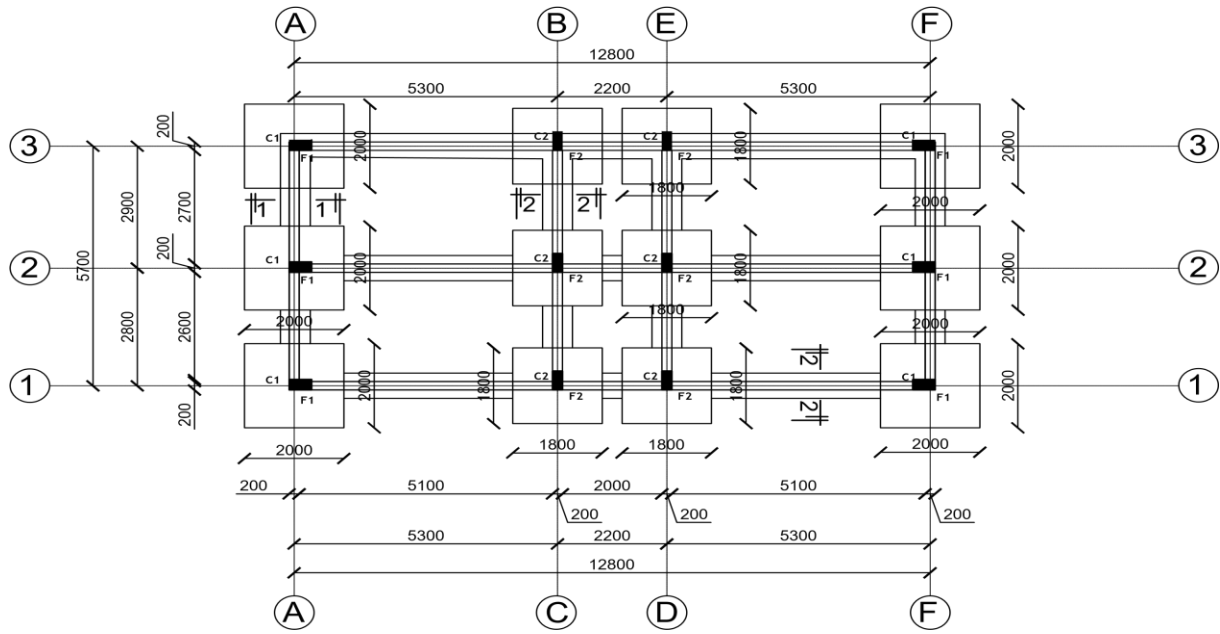
- Polar co-ordinates & polar co-ordinate entry
- Absolute co-ordinates & absolute co-ordinate entry
- Relative co-ordinates & relative co-ordinate entry

**(20 marks)**

### QUESTION FIVE

Figure 1 is a foundation drawing for massionette

Redraw the foundation plan below to detail using layers, all dimensions and text should be included



(20 marks)